



August 1, 2016

ADDENDUM NO. 1 TO ALL OFFERORS:

Request for Proposal: RFP#16-10-08

Description: Computer Aided Dispatch Replacement

Dated: June 14, 2016

For Delivery to: Purchasing Division, City of Roanoke, Virginia

Proposal Due: September 9, 2016

1. **REFERENCE: ATTACHMENT C, FUNCTIONALITY DETAIL: REPLACE:**

Attachment C, Functionality Detail, is hereby replaced with "Revised Attachment C", Functionality Detail. All references to "Attachment C" are shall hereby be modified to refer to "Revised Attachment C". A copy of Attachment C has been provided in word format for the convenience of all Offerors.

2. **REFERENCE: PAGE 2, DEADLINE FOR SUBMITTAL OF QUESTIONS.**

The deadline for submittal of questions is hereby changed to August 4, 2016. Questions must be received by **5:00P.M. on August 4, 2016**, and should in submitted as directed in RFP#16-10-08.

Note: A signed acknowledgment of this addendum should be received at the location indicated on the ITB either prior to the due date and hour or attached to your response. Signature on this addendum does not substitute for your signature on the original bid document. The original bid document must be signed.

Very truly yours,

Monica Cole
Senior Buyer
Phone: 540-853-2871

Name of Firm

Signature/Title

Date



**REVISED ATTACHMENT C
TO
RFP 16-10-08
COMPUTER AIDED DISPATCH/MOBILE REPLACEMENT
FUNCTIONALITY DETAIL**

Offeror shall indicate in the column provided below (Functionality Met) if the proposed solution meets the mandatory/suggested functionality itemized below. Offeror should indicate the functionality by indicating yes (Y) or no (N) in the column provided.

Offerors should elaborate regarding functionality in the column provided for comments.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK.

Item #	Interface Functional Requirements	Mandatory/ Suggested	Functionality Met (Y/N)	Comments
1	CAD to CAD interface			
2	Ability for point-to-point functionality	S		
3	Ability to connect to a third party system	S		
4	Ability to have a bi-directional interface between New World	M		
5	Ability to send or receive designated BOLOs to or from a foreign CAD system.	S		
6	Ability to transfer calls to another agency through CAD2CAD interface.	S		
7	Ability to capture and track to which agency a call is transferred.	S		
8	Ability to recommend units on a foreign CAD based on response plan.	S		
9	Ability to send incident location, type, cross streets, narrative and other responding units to the foreign CAD if a foreign unit is dispatched.	S		
10	Ability to notify the dispatcher if a foreign CAD unit is not available or dispatched.	S		
11	Ability to receive incident location, type, cross streets, narrative and other responding units from a foreign CAD if a local unit is requested and generate an incident for dispatch.	S		
12	Ability to notify the foreign CAD if a requested unit is not available or dispatched.	S		
13	Ability to retrieve and display status from a foreign CAD of configured units.	S		

14	Ability to send local unit status changes to a foreign CAD whenever status change is initiated by mobile computer or dispatcher	S		
15	Ability to translate status codes between local and foreign CAD systems	S		
16	Ability to display updates on a foreign CAD incident associated with a local incident	S		
17	Multi-System Interfaces			
18	Netclock			
19	Ability for the following applications and equipment to share the master time source:			
20	<i>CAD</i>	S		
21	<i>Mobile system</i>	S		
22	<i>LRMS</i>	S		
23	<i>PCs</i>	S		
24	<i>ANI/ALI controller</i>	S		
25	<i>Voice recorders</i>	S		
26	<i>Radio consoles</i>	S		
27	<i>CAD consoles</i>	S		
28	<i>Paging/alerting systems</i>	S		
29	Ability to time stamp all transactions	M		
30	Regional Geofile			
31	Ability to import GIS data into a geofile(s) that can be used by integrated systems	M		
32	<i>CAD</i>	S		
33	<i>Mobile system</i>	S		
34	<i>LRMS</i>	S		
35	<i>AFR</i>	S		
36	<i>JMS</i>	S		
37	<i>PCR</i>	S		

38	<i>FRMS</i>	S		
39	Ability to support multiple GIS map layers	S		
40	Ability to update the GIS CAD system when an update from the Cities' enterprise GIS data is updated	S		
41	VCIN/DMV/NCIC			
42	Ability to query VCIN/DMV/NCIC from the CAD or mobile.	M		
43	Ability for queries to run automatically upon execution of selected commands (e.g., run plates upon entering a traffic stop.).	S		
44	Ability for VCIN query returns to display the following:	S		
45	<i>Warrants</i>	S		
46	<i>Restraining Orders</i>	S		
47	<i>Orders of protection</i>	S		
48	<i>Photos</i>	S		
49	<i>Sex Offender Status</i>	S		
50	<i>Property</i>	S		
51	<i>Vehicle</i>	S		
52	<i>Person of caution</i>	S		
53	<i>Gang member (Y/N)</i>	S		
54	<i>Gang affiliation</i>	S		
55	<i>Gun</i>	S		
56	<i>Missing person (adult and juvenile) information</i>	S		
57	Ability to automatically populate the VCIN/NCIC query mask with information stored in a record.	S		
58	Ability for security permissions established in CAD to apply to the interface.	S		
59	Law Enforcement Information Exchange (LInX)			

60	Ability for Bi-Directional interface between CAD and LinX	S		
61	Ability for users to choose whether or not to include LInX in queries, on the fly.	S		
62	General Web Interface(s)			
63	Ability to export relevant information from CAD to Roanoke city websites	S		
64	<i>PS Portal</i>	S		
65	<i>Fire and PD Display board</i>	S		
66	<i>Civic Plus</i>	S		
67	<i>Q - Alert</i>	S		
68	Ability to transfer updates as changes are made to CAD	S		
69	CAD Interfaces			
70	Intrado Positron Viper E9-1-1			
71	Ability to provide interface between the Viper E9-1-1 system and the CAD application.	M		
72	Ability to fully control the phone through the CAD	S		
73	Ability for ANI/ALI data in the Viper system to populate into the CAD application.	M		
74	Ability to pre-fill the CAD incident mask with ANI/ALI data.	M		
75	Pictometry			
76	Ability to provide interface between the Pictometry system and CAD	S		
77	Ability to support a one-way interface between the CAD application and Pictometry.	S		
78	Ability to trigger the launch of the Pictometry application upon initiation of a call for service.	S		

79	Ability to access the Pictometry menu options from within the CAD software.	S		
80	Ability to select and display Pictometry as a CAD map layer.	S		
81	Ability to transfer location coordinates from CAD to Pictometry upon verification of an incident location.	S		
82	Ability to transfer incident location to Pictometry upon verification of an incident location.	S		
83	Ability to transfer incident location updates to Pictometry view and manually activate selected stations from CAD	S		
84	Ability for Pictometry imagery to pan with the CAD map display.	S		
85	Ability to click on a location on the CAD map and have that point viewed in the Pictometry application.	S		
86	Locution CADvoice Station Alerting			
87	Ability to provide a interface from the CAD application to the Locution system.	M		
88	Ability to activate Locution from within CAD.	S		
89	Ability for the dispatch of fire units to trigger activation of system at the appropriate fire stations.	M		
90	Ability for CAD to receive a confirmation that an alert was successfully sent.	S		
91	Ability for CAD to activate Locution based on units in a move to cover status	M		
92	Ability for Locution to Query CAD	S		
93	HipLink Text Paging			
94	Ability to provide an interface between the HipLink Text Paging system and CAD application.	S		

95	Ability for pages to include any CAD related fields, including:	S		
96	CAD call type	S		
97	Address and/or area	S		
98	Time	S		
99	Date	S		
100	Initial comments	S		
101	Agency defined fields	S		
102	Ability for agency to determine what data is included in each page.	S		
103	Ability for interface to parse and prioritize data to meet HipLink character limits.	S		
104	Automatic Vehicle Location (AVL)			
105	Ability to support an interface from the AVL system to the CAD/Mobile system.	M		
106	Ability to update vehicle locations based on latitude/longitude coordinates transmitted to the AVL server and sent to the CAD application	M		
107	Ability to translate latitude/longitude data sent from the AVL server to the CAD application into a street address.	S		
108	Ability to plot vehicle locations based on AVL data on the CAD and mobile map.	M		
109	Ability to configure AVL data transmission intervals to refresh system at agency-desired intervals. Based on:	S		
110	Unit Status	S		
111	Incident Type	S		
112	Automated Secure Alarm Protocol (ASAP)			
113	Ability to support an interface between ASAP and the CAD application.	S		

114	Ability to transfer the following ASAP alarm data to the CAD application upon alarm activation:	S		
115	Location	S		
116	Phone Number	S		
117	Property Owner	S		
118	Narrative Comments	S		
119	Image Trend Integration (Fire RMS)/ Rescue Bridge			
120	Ability to support an interface between the CAD/Mobile application and the FRMS/PCR application.	S		
121	Ability to transfer service information (e.g., apparatus arrival times) from the CAD/Mobile to the FRMS/PCR application, upon initiation of a fire incident.	S		
122	Ability to initiate a NFIRS report in the FRMS before closing the incident in CAD/Mobile.	S		
123	Ability to populate NFIRS reports with relevant CAD call for service data.	S		
124	Ability to transfer permit information from the FRMS to CAD.	S		
125	Ability to update fire records in the FRMS for previously closed or transferred CAD calls.	S		
126	Ability to recognize updates to a previously closed or transferred CAD call, and update the corresponding fire record in the FRMS with the new information.	S		
127	Ability for the verification of an address in the CAD/Mobile to trigger a lookup in the FRMS occupancy database.	S		
128	Ability to access occupancy information (e.g., pre-plans, hazardous materials) from within the CAD/Mobile call record.	S		

129	Ability for medical calls for service to initiate patient care reports.	S		
130	Ability to populate NEMSIS reports with relevant CAD call for service data.	S		
131	Ability to initiate a NEMSIS report in the PCR before closing the incident in CAD/Mobile.	S		
132	Ability to generate incident headers on all patient care reports that include:	S		
133	<i>Time</i>	S		
134	<i>Date</i>	S		
135	<i>Incident Location</i>	S		
136	<i>Call Type</i>	S		
137	Ability to send incident header information to the FRMS/PCR when the report is initially opened.	S		
138	Ability to send updated call information (e.g., status changes and information updates) to the FRMS/PCR in real time.	S		
139	Ability to restrict access to agency-defined fields based on user login information.	S		
140	Ability to support an interface between the CAD/Mobile application and the FRMS.	M		
141	Ability to transfer service information (e.g., apparatus arrival times) from the CAD/Mobile to the FRMS/PCR application, upon initiation of a fire incident.	S		
142	Ability to initiate a NFIRS report in the FRMS before closing the incident in CAD/Mobile.	S		
143	Ability to populate NFIRS reports with relevant CAD call for service data.	S		
144	Ability to transfer permit information from the CAD to FRMS.	S		

145	Ability to update fire records in the FRMS for previously closed or transferred CAD calls.	S		
146	Ability to recognize updates to a previously closed or transferred CAD call, and update the corresponding fire record in the FRMS with the new information.	S		
147	Ability for the verification of an address in the CAD/Mobile to trigger a lookup in the FRMS occupancy database.	S		
148	Ability to access occupancy information (e.g., pre-plans, hazardous materials) from within the CAD/Mobile call record.	S		
149	Omega CrimeView			
150	Ability to support an interface to Omega CrimeView from CAD	M		
151	Ability to transfer agency defined incident information to Omega CrimeView on a daily basis.	S		
152	Integration with Southern Software - LRMS			
153	Ability to support an interface to push agency-defined data from CAD to Southern Software	M		

Item #	Global Functional Requirements	Mandatory/Suggested	Functionality Met (Y/N)	Comments
1	Global System Features			
2	Ability to provide the user with feedback as to the success or failure of a system task, including, but not limited to:	S		
3	<i>Audible alert</i>	S		
4	<i>Visual alert</i>	S		
5	<i>Other</i>	S		

6	Ability for system to automatically adjust number sequencing for new calendar years.	S		
7	Ability for system to automatically account for daylight savings time and any required parameter changes to daylight savings.	S		
8	Ability to date and time stamp all system transactions.	S		
9	Ability to have a single master time stamp for all application components.	S		
10	Ability for all date and time stamps to be system generated.	S		
11	Code Table Administration			
12	Ability for the City to define codes for drop down menus (e.g., BN for brown, BL for blue).	S		
13	Ability for the City to maintain code tables, without contacting vendor.	S		
14	Ability to make Agency defined changes and additions to the code tables without modification to, or recompilation of, the application software.	S		
15	Ability to add an unlimited number of Agency defined fields without vendor intervention.	S		
16	Ability to share code tables among application components.	S		
17	Ability for code table updates to propagate throughout the system (e.g. an update in a code table for one application component updates the same code table in other application components, including clients).	S		
18	Ability to designate code table values as obsolete and unavailable for current use, preventing further entry of that value, yet retain the value in the table for inquiries on historical data.	S		

19	Ability to create a new code and merge/link historical records to a new code.	S		
20	Ability to store the date a code table value becomes obsolete.	S		
21	Ability to store the date a code table value becomes effective.	S		
22	Security Administration			
23	Ability to comply with CJIS software/ application security requirements.	M		
24	Ability to encrypt data transmissions, per NCIC requirements.	M		
25	Ability to create multiple security groups.	M		
26	Ability to assign personnel to security groups.	M		
27	Ability to assign users to multiple security groups.	M		
28	Ability for agencies to define access permissions for each security group.	M		
29	Ability to view, add, maintain, modify and delete user profiles. Examples:	M		
30	<i>Agency</i>	S		
31	<i>Security group</i>	S		
32	<i>User ID</i>	S		
33	<i>User name</i>	S		
34	Any combination of the above	S		
35	Ability to tie security to personnel module for automated security provisioning driven by work assignment.	M		
36	Ability to restrict user access or security group access to files and data fields for specified transactions:	M		
37	<i>Add/create</i>	S		
38	<i>Attach to email or send via other electronic method</i>	S		
39	<i>Delete</i>	S		

40	<i>Inquiry</i>	S		
41	<i>Modify</i>	S		
42	<i>Print</i>	S		
43	<i>View</i>	S		
44	Ability to separately secure add, modify, delete, and inquiry functions.	M		
45	Ability to assign security access by physical device (e.g., PCs, terminals).	M		
46	Ability to remotely log out a workstation (mobile or desktop).	S		
47	Ability to lock out a user who is deemed a security risk while that user is on-line (e.g., logged into the system).	M		
48	Ability to provide security at the following levels:	M		
49	<i>Application</i>	S		
50	<i>Database</i>	S		
51	<i>Field</i>	S		
52	<i>Record</i>	S		
53	<i>Screen/Transaction</i>	S		
54	<i>System</i>	S		
55	Ability to create temporary security profiles.	S		
56	Ability for applications to work independently in the event Active Directory becomes unavailable.	S		
57	Ability to support alternate authentication technologies (i.e., ID card, security token, biometrics).	S		
58	Ability to flag a data element as confidential information for security purposes.	S		
59	Ability to prevent all users, except for the user who identified data as confidential, to be able to see that confidential information exists.	S		
60	Ability to encrypt confidential files in the database.	S		

61	Ability to prevent clear text data from being cached on the workstation.	S		
62	Ability for users who are not authorized to access confidential information to see that the information exists, but not view the actual information.	S		
63	Ability to generate a report of data that has been identified as confidential for an Agency defined period of time.	S		
64	Ability to notify user who identified data as confidential, after data has been identified as confidential for an Agency defined period of time.	S		
65	Logons and Logoffs			
66	Ability for system administrator to change user IDs.	S		
67	Ability to be logged onto multiple workstations at the same time (e.g., logged into mobile computer in a vehicle and logged onto a station computer at the same time):	S		
68	<i>Different types of workstation (e.g., two PCs)</i>	S		
69	<i>Different types of devices (e.g., PC and tablet)</i>	S		
70	<i>Same types of workstations (e.g., two PCs)</i>	S		
71	<i>Same types of devices (e.g., two tablets)</i>	S		
72	Ability to track user logon/logoff times and locations for time reporting purposes.	S		
73	Ability to support LDAP or Active Directory authentication.	S		
74	Ability to support two-factor logon.	S		
75	Ability to support third-party identification devices for logons.	S		
76	Ability to automatically logoff a user after a City defined predetermined period of inactivity, based on:	S		
77	<i>User type</i>	S		
78	<i>Location</i>	S		

79	Ability to disable automatic logoff for secured workstations.	S		
80	Ability to save user's data or session prior to automatically logging off the user.	S		
81	Ability to display date and time of last session upon user logon.	S		
82	Ability to provide system generated message to system administrator or supervisor when a City defined number of unsuccessful sign-on attempts have occurred.	S		
83	Ability for the unsuccessful sign-on attempt message to include, at a minimum:	S		
84	<i>Date and time</i>	S		
85	<i>Number of attempts</i>	S		
86	<i>User ID</i>	S		
87	<i>Workstation ID</i>	S		
88	Ability to "lock out" a user and close applications after the City defined number of attempted logons.	S		
89	Ability to disable "lock out" feature.	S		
90	Ability to provide a secure lock-out with quick re-authentication to restrict access to systems from an unattended workstation.	S		
91	Ability to generate a report of the number of currently logged on users:	S		
92	<i>Total</i>	S		
93	<i>By application</i>	S		
94	User IDs and Passwords			
95	Ability for the City to define password and user ID creation criteria.	S		
96	Ability to use Active Directory for password maintenance.	S		

97	Ability for the City to define which user groups can reset passwords on behalf of users (or create a security group that can reset passwords on behalf of users).	S		
98	Ability to require passwords be changed at City defined intervals, by user, with the ability to set a global maximum time.	S		
99	Ability to maintain a history of de-activated user IDs.	S		
100	Ability to disable password expiration feature.	S		
101	Ability to require the user to enter a new password twice (e.g., to verify password).	S		
102	Ability to produce auto-notification of impending password expiration.	S		
103	Ability to enforce strong passwords per CJIS requirements.	S		
104	Ability for user ID to be non-case-sensitive.	S		
105	Ability for individual system users to change their own passwords.	S		
106	Ability for system administrator to add and delete users.	S		
107	Ability for system administrator to disable an account.	S		
108	Ability to mask passwords when typed.	S		
109	Ability to encrypt passwords when stored and sent (i.e., no clear text passwords).	S		
110	Audit Trails			
111	Ability to access audit information in a SQL database.	M		
112	Ability to define who has audit trail permissions	M		
113	Ability to maintain an audit trail at the following levels:	S		
114	<i>Individual</i>	S		
115	<i>Record</i>	S		
116	<i>Module</i>	S		
117	<i>Application</i>	S		

118	Ability to view all audit trail records.	M		
119	Ability to log all actions including, but not limited to :	S		
120	<i>Changes</i>	S		
121	<i>Updates</i>	S		
122	<i>Errors</i>	S		
123	<i>Security violations</i>	S		
124	<i>Attempted breaches</i>	S		
125	<i>File maintenance transactions (e.g., create, read, add, update, delete transactions)</i>	S		
126	<i>Inquiries to all internal and external systems</i>	S		
127	<i>Transaction entries</i>	S		
128	<i>Print jobs</i>	S		
129	<i>Override</i>	S		
130	<i>Successful sign-on</i>	S		
131	<i>Unsuccessful sign-on attempts</i>	S		
132	<i>Unauthorized attempts to access data</i>	S		
133	Ability for the City to configure which transactions are recorded in the audit log.	S		
134	Ability to store audit trail data including, but not limited to:	S		
135	<i>User ID</i>	S		
136	<i>User name</i>	S		
137	<i>Terminal ID</i>	S		
138	<i>IP address</i>	S		
139	<i>Printer ID</i>	S		
140	<i>Security level</i>	S		
141	<i>Date and time stamp</i>	S		
142	<i>Transaction type</i>	S		
143	<i>Input, edit, deletion or inquiry</i>	S		
144	<i>Before and after values of modified data</i>	S		
145	<i>Type of data accessed during an inquiry</i>	S		

146	Ability to review all computer activity performed by a specified user during a period of time.	S		
147	Ability to log all vendor access to system (e.g., record a description of all vendor activity).	S		
148	Ability to maintain historical data based on a City defined length of time.	S		
149	Ability to set audit log purge criteria.	S		
150	Ability to perform purge based on criteria.	S		
151	Ability to date, timestamp, view and audit all inquiries.	S		
152	Ability of the system to assign a unique identifier to each record (i.e., log ID).	S		
153	Ability to comply with NCIC III logging requirements.	S		
154	Ability for all audit and logging functionality to be configurable.	S		
155	Ability to pull up a record and see (e.g., via a function key):	S		
156	<i>Who made last change to record</i>	S		
157	<i>Time and date stamp of last change to record</i>	S		
158	<i>Modifications made to record (before and after values)</i>	S		
159	Ability to extract reports from the audit trail.	S		
160	Ability to secure audit log from user tampering.	S		
161	Ability to archive audit trails based on transaction type and/or date.	S		
162	Ability to manually archive information based upon user-specified parameters (time, file size, etc.).	S		
163	Ability to automatically archive information based upon the following parameters:	S		
164	<i>City defined time period</i>	S		
165	<i>City defined file size</i>	S		

166	Global Report, Query and Search Features			
167	Reporting			
168	Ability to provide a native reporting tool that can:	S		
169	<i>Create reports based on any operational data field in any system database</i>	S		
170	<i>Create reports based on multiple operational data fields in any system database</i>	S		
171	<i>Allow the end user to design report format</i>	S		
172	<i>Access multiple files and tables</i>	S		
173	<i>Print</i>	S		
174	<i>Generate HTML reports</i>	S		
175	<i>Generate PDF files</i>	S		
176	Ability for the report generating tool to handle:	S		
177	<i>Arithmetic operations, including fractiles and percentiles</i>	S		
178	<i>A full suite of statistical operations</i>	S		
179	<i>Logic operations</i>	S		
180	Ability for the report generating tool to handle the manipulation of:	S		
181	<i>Data formats</i>	S		
182	<i>Field sizes</i>	S		
183	<i>Editing rules for a field</i>	S		
184	<i>Field headings</i>	S		
185	<i>Data definitions</i>	S		
186	<i>Formatting rules</i>	S		
187	Ability to maintain a general library of user created reports (e.g., report is pushed to all system users).	S		
188	Ability to preserve all user-created reports during updates and upgrades.	S		

189	Ability for all authorized users (based on permissions) to access the general library of user created reports.	S		
190	Ability for users to put their own reports in a "dashboard" for later use.	S		
191	Ability to send reports to individuals or groups (via system or agency email).	S		
192	Ability to generate reports on a pre-determined schedule.	S		
193	Ability to automatically send scheduled reports to distribution groups.	S		
194	Ability to export reports results into standard formats, including:	S		
195	<i>Word</i>	S		
196	<i>Access</i>	S		
197	<i>Excel</i>	S		
198	<i>Text files</i>	S		
199	<i>Shapefiles</i>	S		
200	<i>HTML</i>	S		
201	<i>PDF</i>	S		
202	Ability to save reports for subsequent viewing and/or printing.	S		
203	Ability to delete reports after viewing and/or printing.	S		
204	Ability to view requested reports prior to printing.	S		
205	Queries			
206	Ability to query any operational data field.	S		
207	Ability to run a query on:	S		
208	<i>Report number</i>	S		
209	<i>Incident number</i>	S		
210	<i>Officer information, including:</i>	S		
211	<i>Name</i>	S		
212	<i>ID</i>	S		

213	Unit number	S		
214	Name information, including:	S		
215	Name	S		
216	Identification number (driver's license, social security number, etc.).	S		
217	Phone number	S		
218	Physical characteristics:	S		
219	Height	S		
220	Weight	S		
221	Scars/Marks/Tattoos	S		
222	Hair	S		
223	Eyes	S		
224	Address information, including:	S		
225	Exact address	S		
226	Street	S		
227	Business name	S		
228	Common name	S		
229	Vehicle information, including:	S		
230	Vehicle identification number	S		
231	License plate number	S		
232	Ability to search and query all appropriate databases with one query request.	S		
233	Ability to provide check boxes for users to indicate which databases to query.	S		
234	Ability to set city defined defaults for databases to query within each application.	S		
235	Ability to consolidate query returns when multiple databases are queried.	S		
236	Ability for query returns to indicate the information source (e.g., NCIC, LRMS).	S		

237	Ability to select any result from a query and drill down for detailed information (e.g., hyperlink).	S		
238	Ability to drill down on query results.	S		
239	Ability to save queries for later use.	S		
240	Searches			
241	Ability to search on any operational data field.	S		
242	Ability to search on multiple operational data fields.	S		
243	Ability to access multiple files, fields and tables in a single search.	S		
244	Ability to access multiple applications and tables in a single search (e.g., phone number search in CAD/Mobile also searches LRMS, JMS, FRMS and PCR applications).	S		
245	Ability to search narrative fields.	S		
246	Ability to exclude specified text when conducting narrative text searches.	S		
247	Ability to conduct searches based on:	S		
248	Soundex	S		
249	<i>"Wild cards"</i>	S		
250	<i>Exact match</i>	S		
251	<i>Partial information</i>	S		
252	<i>Boolean operators ("and," "or," and "not")</i>	S		
253	<i>Date ranges</i>	S		
254	Ability to narrow down searches (search within a search).	S		
255	Ability to select any result from a search and drill down for detailed information (e.g., hyperlink).	S		
256	Ability to restrict searches that result in large volumes of data by:	S		
257	<i>Providing a warning of the size of records found</i>	S		

258	<i>Requesting users to prompt the system to continue or refine the search</i>	S		
259	<i>Requesting users to prompt the system to cancel the search</i>	S		
260	Ability to limit the number of records viewed at one time.	S		
261	Ability to clearly indicate when additional information (e.g., more search results) is available.	S		
262	Ability to save searches for later use.	S		
263	Ability to export search results into standard formats, including:	S		
264	<i>Word</i>	S		
265	<i>Access</i>	S		
266	<i>Excel</i>	S		
267	<i>Text files</i>	S		
268	<i>Shapefiles</i>	S		
269	<i>HTML</i>	S		
270	<i>PDF</i>	S		
271	Ability to drill down into search returns.	S		
272	Online Documentation			
273	System Related Documentation			
274	Ability to access an online help menu.	S		
275	Ability to use either a mouse or command line to access the online help menu.	S		
276	Ability to provide context-sensitive help in the form of prompts and instructions.	S		
277	Ability to provide context-sensitive help only upon a user request.	S		
278	Ability to provide help facility for an operation in progress via a function key from a screen or field within any application.	S		

279	Ability to search help files by keywords.	S		
280	Ability to provide help facility via function key or icon from any screen or field within any application.	S		
281	Ability to edit text in help files to address Agency specific topics.	S		
282	Ability to maintain online Agency specific documentation and procedures, including:	S		
283	<i>Glossary of terms</i>	S		
284	<i>Glossary of error codes</i>	S		
285	Ability for help file to automatically update at the time of all version/release updates.	S		
286	Ability to prevent software updates from overriding Agency specific online documentation and help files.	S		
287	Ability for system administrator to create error messages.	S		
288	Ability for system administrator to edit error messages.	S		
289	Ability to generate a report of the most common user errors.	S		
290	Ability to track revisions to online documentation and help files, including:	S		
291	<i>User ID</i>	S		
292	<i>Date and time</i>	S		
293	Ability to provide help files in a Windows help format.	S		
294	Ability to bookmark topics.	S		
295	Ability to search help file by:	S		
296	<i>Keywords</i>	S		
297	<i>Phrases</i>	S		
298	<i>Topics</i>	S		
299	<i>Similar topics</i>	S		
300	Ability to support SQL Databases and Windows Environment	M		

301	Operations Related Documentation			
302	Ability to provide training modules through help menu.	S		
303	Ability to include Agency specific standard operating procedures in online documentation.	S		
304	Ability to augment vendor-supplied online help tables with additional information (e.g., add notes to a topic that are viewable along with the vendor-supplied information).	S		

Item #	Mobile Data Computing Functional Requirements	Mandatory/Suggested	Functionality Met (Y/N)	Comments
1	General Mobile Data Computing Features			
2	Ability to operate in a "window-like" environment to support concurrent processing (e.g., invoke a license inquiry using a different "window" without losing initial working screen).	M		
3	Ability to support local and remote printing.	S		
4	Ability to parse and format data before printing.	S		
5	Ability for user to select printer from which to print.	S		
6	Ability to provide an alert if Mobile is receiving negative response from CAD system (no connection to CAD):	M		
7	<i>Visual alert</i>	S		
8	<i>Audible alert</i>	S		
9	Ability to continuously attempt to reconnect to CAD system in the event connectivity is lost.	S		
10	Ability to provide screen display formats that are consistent across the application.	S		
11	Ability to access CAD and LRMS/FRMS/PCR data via handheld device or tablet.	S		
12	Ability to support mobile dashboard featuring:	S		

13	<i>Open reports</i>	S		
14	<i>To-do items</i>	S		
15	<i>Agency defined fields</i>	S		
16	Ability for Mobile information displayed on screen to automatically refresh at Region defined intervals.	S		
17	Mobile Application User Interface			
18	Ability for user to toggle among applications on the Mobiles.	M		
19	Ability for user to toggle among windows.	M		
20	Ability for user to minimize or expand any window.	S		
21	Ability to support touch-screen functionality.	M		
22	Ability for users to select a touch screen configuration that accommodates protective hand gear (e.g., big buttons, touch screen works with gloves on).	S		
23	Ability to support voice activated (voice command) functionality.	S		
24	Ability to support text-to-voice functionality.	S		
25	Ability to accept input from:			
26	<i>3D barcode reader (e.g., driver's license, registration)</i>	S		
27	<i>Card swipe device</i>	S		
28	<i>Command entries on a command line</i>	S		
29	<i>Fingerprint reader</i>	S		
30	<i>Function keys (one touch keys)</i>	S		
31	Point-and-click devices (i.e., mouse, trackball, touch pad)	S		
32	Ability for users to configure the display of their Mobiles, including:	S		
33	<i>Font color</i>	S		
34	<i>Font size</i>	S		

35	<i>Window size</i>	S		
36	<i>Window location</i>	S		
37	<i>Day/Night mode</i>	S		
38	Ability to configure a default for the following application settings:	S		
39	<i>Audible message</i>	S		
40	<i>Audible tones</i>	S		
41	<i>Color</i>	S		
42	<i>Reverse video (e.g., day/night mode)</i>	S		
43	Ability to switch to/from Day/Night mode with minimal steps	M		
44	Ability for the user to control Day/Night mode function	S		
45	Ability to store a user profile for mobile display configuration for auto-configuration upon log on.	S		
46	Ability for for profile preferences to appear to carry onto different machines	S		
47	Ability to return to application default settings.	M		
48	NOT USED.			
49	Ability for color-blindness configuration to meet ADA requirements	M		
50	Ability to support multiple on-screen button configurations (e.g., left side, right side, top or bottom).	S		
51	Ability to provide visible differentiation (e.g., color) between active applications.	M		
52	Ability to cut and paste from one application or window to another.	S		
53	Ability to display the following information on the screen during normal operations:	S		

54	Availability of wireless connectivity	S		
56	Call statuses "On Scene" and "In route" are not next to one another	S		
58	Current unit status (regardless of who assigned the updated status)	M		
59	Current system date and time	M		
60	Incident number	S		
61	Case number (if provided)	S		
62	Message alert	S		
63	Radio talk group (if assigned)	S		
64	Page Title, navigation, breadcrumbs	M		
65	Unit ID	S		
66	User ID	S		
67	Vehicle location (e.g., on map)	S		
68	Ability to view all active units (on map)	S		
69	Ability to see all units assigned to the same incident you are currently assigned	S		
70	Ability to view multiple calls simultaneously (e.g., in different windows).	S		
71	Ability to set user-defined criteria for how data is displayed (e.g., incident screen, unit screen).	S		
72	Function Keys/Commands			
73	Ability to support single keystroke commands.	S		
74	Ability to define function keys to directly access menus, sub-menus or individual functions	S		
75	Ability for each Agency to define keystroke shortcuts for:	S		
76	<i>Common tasks</i>	S		
77	<i>Status updates</i>	S		
78	<i>Form retrieval (e.g., NCIC call disposition)</i>	S		

79	Ability to configure a Mobile button (tool bar or function key) to launch any third-party program (e.g., Adobe, Word).	S		
80	Emergency Key Functionality			
81	Ability to initiate an emergency message transmission from a touch screen button or hot key.	S		
82	Ability to automatically transmit the following information in an emergency situation:	S		
83	<i>Last known location</i>	S		
84	<i>Current location (with AVL)</i>	S		
85	<i>Reference to incident</i>	S		
86	<i>User ID</i>	S		
87	<i>User name</i>	S		
88	Ability to have a visible and audible indication that emergency key has been activated (in all units).	S		
89	Ability for dispatch to select which consoles receive visible/audible alert of emergency key activation	S		
90	Ability to configure emergency key to capture Agency defined combination of above information.	S		
91	Ability to link emergency key functionality to PTT (Push to Talk) radio activation.	S		
92	Ability for Emergency information to imported into CAD	S		
93	Ability to send to all Mobile and CAD users (except the sender) an emergency notification with unit ID and location (if known) when the emergency key is activated.	S		
94	Ability to prevent emergency notification from appearing on the sender's screen.	S		
95	Ability for the Mobile screen to revert to its prior view after the user dismisses an emergency message.	S		
96	Ability for system administrator to turn off emergency key functionality by:	S		

97	<i>Device</i>	S		
98	<i>User</i>	S		
99	Security			
100	Ability for Agency to set the time a Mobile can remain inactive before automatically logging out the user.	S		
101	Ability to print a log of all transactions for a Mobile computer.	S		
102	Ability for Mobile user to remain logged in to CAD, despite software shut-downs or computer re-boot.	S		
103	Ability to save data entered into user logon fields that remains the same from session to session (e.g., all information other than password).	S		
104	Ability for Agency to define logoff requirements (e.g., what data is required at time of logoff).	S		
105	Ability to support a single password sign-on to CAD, the Mobile and the operating system.	S		
106	Ability to automatically notify the following of Mobile logon and logoffs (e.g., name, ID):	S		
107	<i>Dispatchers</i>	S		
108	<i>Field supervisors</i>	S		
109	Ability to logon multiple individuals per unit.	M		
110	Ability to assign an individual to a unit at any time from within the mobile application.	S		
111	Ability to remove an individual from a unit at any time from within the mobile application.	S		
112	Ability, when there are multiple users logged onto one Mobile, to allow one user to logoff the system while allowing another to remain logged on.	S		
113	Ability for a resource to be logged on but not available for service.	M		

114	Ability for the administrator to configure status upon logon	S		
115	Ability to logoff personnel without logging off the associated apparatus (e.g., firefighters changing shift).	S		
116	Ability for a user to logoff the system and save information on the Mobile for an Agency defined period of time, including:	S		
117	<i>In-progress/closed calls</i>	S		
118	<i>In-progress reports</i>	S		
119	<i>Messages</i>	S		
120	<i>Notes</i>	S		
121	<i>Query returns</i>	S		
122	Ability to store the following until manually deleted by the user:	S		
123	<i>In-progress/closed calls</i>	S		
124	<i>In-progress reports</i>	S		
125	<i>Messages</i>	S		
126	<i>Notes</i>	S		
127	<i>Query returns</i>	S		
128	Ability to support a download of software/files at logon without interfering with operational performance.	S		
129	Ability for user to initiate download or for automated download to occur			
130	Ability to add resource skill rather than having it assigned to the unit	M		
131	Ability for user login to update the resource recommendation	S		
132	Ability to separate Mobile logoff from designating status as off-shift.	S		
133	Application Integration			

134	Ability to view incident information available in CAD on the Mobile.	M		
135	Ability to provide the same messaging features as the CAD application on mobile	S		
136	Ability for mobile status updates to be reflected in CAD.	M		
137	Ability to receive dispatch alerts and/or indicators without losing current work.	S		
138	Ability to receive messages and/or indicators without losing current work.	S		
139	Ability to acknowledge dispatch without losing current work.	S		
140	Ability to bring dispatch to forefront without losing current work.	S		
141	Ability for alerts created in CAD or LRMS/FRMS/PCR to be made available to users in the Mobile environment.	S		
142	Ability to provide the option to view DMV data from the mobile device.	S		
143	AVL Integration			
144	Ability to support AVL functionality.	M		
145	Ability to support GPS functionality.	M		
146	Ability to display other field units on mobile map (assuming AVL and sufficient bandwidth).	S		
147	Ability to filter displayed field units on mobile map by Agency defined roles (e.g., only fire units or only units within a command area).	S		
148	Ability to integrate GPS (radio or mobile phone) into mapping client.	S		
149	Ability to display vehicle location on a map and view progress toward incident location.	M		

150	Ability to display direction of travel of units.	S		
151	Ability to automatically rotate map so that unit is automatically displayed moving forward.	S		
152	Ability to rotate map so north is always at the top of map regardless of direction heading.	S		
153	Ability to receive automatic alerts for Agency defined criteria (e.g., hazards, outstanding warrant, sex offender) based on proximity of unit to coordinate.	S		
154	Ability for system administrator to turn off automatic alerts.	S		
155	Ability for system to automatically recognize that a unit is in close proximity to an incident location.	S		
156	Ability to turn AVL functionality on/off for individual units based on Agency defined roles (e.g., undercover units).	S		
157	Ability to configure the AVL polling rate by Agency and role within Agency.	S		
158	Ability to send the AVL location for calls initiated from the mobile computer.	S		
159	Ability for system to save vehicle travel route based on AVL for playback for Agency defined period of time.	S		
160	Ability to generate a report on vehicle travel routes based on AVL for Agency defined period of time (e.g., geophone).	S		
161	Ability to query AVL logs.	S		
162	Ability to export data from AVL logs.	S		
163	Routing			
164	Ability to automatically calculate directions from user's current location (on Mobile using AVL) to dispatched location.	M		
165	Ability to support quickest-time routing for all dispatches.	M		

166	Ability to recalculate directions to incident/specified location on the fly.	M		
167	Ability to provide audible routing information.	S		
168	Ability to provide text-based routing information.	S		
169	Ability to provide closest cross streets.	M		
170	Ability to take into account the following when calculating routing directions:	S		
171	<i>Street speed limits</i>	S		
172	<i>Closed streets</i>	S		
173	<i>One-way streets</i>	S		
174	<i>Dispatch entered obstacles by Agency defined radius</i>	S		
175	<i>Mobile user entered obstacles by Agency defined radius</i>	S		
176	<i>Distance between vehicle and incident location</i>	S		
177	<i>Height limitations on overpasses</i>	S		
178	<i>Interstate crossovers</i>	S		
179	<i>Elevations (e.g., overpasses)</i>	S		
180	<i>Weight restriction on bridges</i>	S		
181	<i>Traffic history (general)</i>	S		
182	<i>Speed history based on average Fire/EMS/PD speed on previously traveled routes</i>	S		
183	<i>Agency defined traffic speed</i>	S		
184	Ability to highlight on the map the recommended route from current location to a dispatched incident site.	S		
185	Ability for Mobile user to turn recommended route ability on/off.	M		
186	Ability for Mobile user to alter recommended route, based on:	S		
187	<i>Application recommendation(s)</i>	S		
188	<i>Manual (e.g., drag and drop)</i>	S		

189	Ability to clearly display potential obstacles along route.	S		
190	Ability to provide estimated travel time.	S		
191	Ability to record all routing displays within CAD (e.g., map displays, travel time, travel time estimation) for analysis to improve routing algorithms	S		
192	Ability to notify user when a different unit comes within an Agency defined proximity of the first unit (e.g., warning of approaching unit).	S		
193	Status Views			
194	Ability to view pending calls.	M		
195	Ability to view active calls.	M		
196	Ability to view unit status by:	S		
197	<i>Agency</i>	S		
198	<i>Area command</i>	S		
199	<i>Availability</i>	S		
200	<i>Beat</i>	S		
201	<i>Battalion</i>	S		
202	<i>City</i>	S		
203	<i>Sector</i>	S		
204	<i>Fire zone box</i>	S		
205	<i>Individual unit/apparatus</i>	S		
206	<i>Squad/company</i>	S		
207	<i>Overtime assignment</i>	S		
208	Ability to open any active incident to view dispatch data, units and incident notes.	M		
209	Ability to filter display of CAD calls in the incident window by:	S		
210	<i>Call type</i>	S		
211	<i>Nature</i>	S		
212	<i>Agency</i>	S		

213	<i>Geographic Area</i>	<i>S</i>		
214	<i>Call status</i>	<i>S</i>		
215	<i>Unit</i>	<i>S</i>		
216	<i>Priority</i>	<i>S</i>		
217	Ability to sort display of CAD calls in the incident window by:	<i>S</i>		
218	<i>Call type</i>	<i>S</i>		
219	<i>Nature</i>	<i>S</i>		
220	<i>Agency</i>	<i>S</i>		
221	<i>Geographic Area</i>	<i>S</i>		
222	<i>Call status</i>	<i>S</i>		
223	<i>Unit</i>	<i>S</i>		
224	<i>Priority</i>	<i>S</i>		
225	<i>Received</i>	<i>S</i>		
226	Ability to save display setting per user.	<i>S</i>		
227	Mobile Dispatch Operations			
228	Dispatch Receipt			
229	Ability to receive dispatches on the Mobile application.	M		
230	Ability to receive dispatches on multiple mobile telecommunications devices including, but not limited to:	<i>S</i>		
231	<i>Mobile computers</i>	M		
232	<i>Smart phones</i>	<i>S</i>		
233	<i>Cell phones</i>	<i>S</i>		
234	<i>Pagers</i>	<i>S</i>		
235	<i>Tablets</i>	<i>S</i>		
236	Ability for dispatches to open automatically on mobile computers.	<i>S</i>		
237	Ability to alert mobile users that a new dispatch has arrived:	M		
238	<i>Audible alert</i>	<i>M</i>		

239	<i>Visual alert</i>	<i>M</i>		
240	<i>Physical alert (e.g., vibrate)</i>	<i>S</i>		
241	Ability to provide a distinguishable alert for high priority calls (as defined by each Agency):	M		
242	<i>Audible alert</i>	<i>S</i>		
243	<i>Visible alert</i>	<i>S</i>		
244	<i>Physical alert (e.g., vibrate)</i>	<i>S</i>		
245	Ability for all personnel dispatched to an incident to receive notification when other personnel are en route.	<i>S</i>		
246	Ability for all personnel dispatched to a call to receive notification of status and location changes of other personnel dispatched to the call.	<i>S</i>		
247	Ability for the Field supervisor to sign on to more than one area to see multiple notifications	<i>S</i>		
248	Ability for Mobile users to add themselves to an incident.	<i>S</i>		
249	Ability to access and read all call comments associated with a call, regardless of assignment based on Agency defined permissions.	<i>S</i>		
250	Ability to display the following information in distinct fields or tabs (as opposed to in the call narrative) upon receipt of dispatch:	<i>S</i>		
251	<i>Assisting unit(s)</i>	<i>S</i>		
252	<i>Comments/narrative (unlimited)</i>	<i>S</i>		
253	<i>Date and time incident entered</i>	<i>S</i>		
254	<i>Driver registration information</i>	<i>S</i>		
255	<i>HAZMAT code and instructions</i>	<i>S</i>		
256	<i>HAZMAT status</i>	<i>S</i>		
257	<i>Incident location with cross streets</i>	<i>S</i>		
258	<i>Incident priority</i>	<i>S</i>		
259	<i>Incident type</i>	<i>S</i>		

260	<i>Incident talk group</i>	S		
261	<i>Number of previous calls at a location</i>	S		
262	<i>Pre-plan information</i>	S		
263	<i>Reporting party address</i>	S		
264	<i>Reporting party name</i>	S		
265	<i>Reporting party phone</i>	S		
266	<i>Suspect information:</i>	S		
267	<i>Name</i>	S		
268	<i>Description</i>	S		
269	<i>Location</i>	S		
270	<i>Phone number at incident location (if different)</i>	S		
271	<i>Premise and prior information flag</i>	S		
272	<i>Premise information</i>	S		
273	<i>Recommended route</i>	S		
274	<i>System generated incident number</i>	S		
275	<i>Weapons involved</i>	S		
276	<i>Agency defined</i>	S		
277	Ability for all agencies to see dispatch information sent to other agencies dispatched to the same incident.	S		
278	Dispatch Updates			
279	Ability to maintain static screen view while new information is being added.	M		
280	Ability to receive supplemental dispatch information (e.g., location, suspect, pictures, vehicle information) without interrupting or overlaying current screen.	S		
281	Ability for dispatch data to be updated in real-time without user intervention (e.g., incidents, unit statuses, call comments).	S		

282	Ability for supplemental information to be visually distinct from information previously received by Mobile user (e.g., separate font color, highlighted).	S		
283	Ability to have different types of information on different screens (e.g., tabs - one for current incident, one for related premise history) such that users can easily filter or access information.	S		
285	Premise and Hazard Information			
286	Ability to alert user of availability of information associated with a location (gate codes, hazards, premise history, pre-plans, etc.).	M		
287	Ability to indicate type of information that is attached to a call (e.g., gate code, hazard) so that user can decide whether or not to retrieve the information.	S		
288	Ability for field units to have the option of pulling up or not pulling up information attached to the call.	S		
289	Ability to drill down in premise history to find links to incidents, persons, vehicles, etc.	S		
290	Ability to retrieve fire pre-plan information in the mobile environment.	S		
291	Ability to pull up a previous call in a premise history file and show any hazards that were valid at the time of the call.	S		
292	Ability to dynamically display response guides (e.g., checklist), based on Agency defined call types, including:	S		
293	<i>Emergency Response Guide (ERG)</i>	S		
294	<i>Pre-plan Material Safety Data Sheet (MSDS)</i>	S		
295	Field Initiated Calls for Service			
296	Ability to initiate a call for service from the Mobile, including:	M		
297	<i>Call for service</i>	M		

298	<i>Traffic stop</i>	<i>M</i>		
299	<i>Subject stop</i>	<i>M</i>		
300	<i>Administrative activity (e.g. training, field inspections)</i>	<i>M</i>		
301	<i>Other Agency defined call types.</i>	<i>M</i>		
302	Ability to initiate a call for service with:			
303	<i>Function key</i>	<i>S</i>		
304	<i>Quick touch button</i>	<i>S</i>		
305	Ability, with appropriate supporting mapping/AVL technology, to indicate unit/incident location when initiating an incident from the field.	M		
306	Ability to revalidate self-initiated call for service location at the dispatch level.	<i>S</i>		
307	Perimeters			
308	Ability to automatically generate a perimeter upon entry of a location and perimeter distance (e.g., set a 3 block perimeter around 300 Main St.).	<i>S</i>		
309	Ability to receive suggested perimeter positions from dispatch.	<i>S</i>		
310	Ability for suggested perimeter positions to appear on mobile map upon receipt.	<i>S</i>		
311	Ability to automatically generate perimeters based on:	<i>S</i>		
312	<i>Wind conditions</i>	<i>S</i>		
313	<i>Chemical material type</i>	<i>S</i>		
314	<i>Agency defined field</i>	<i>S</i>		
315	<i>Any combination of above</i>	<i>S</i>		
316	Ability to automatically create perimeters, based on Agency defined parameters for a given call type (e.g., chemical spill requires a 10 block perimeter).	<i>S</i>		
317	Call Disposition			

318	Ability to require an Agency specific call clearance code in order to clear a call from the Mobile.	M		
319	Ability for each Agency to have their own unique disposition codes and not be presented with disposition codes used by other agencies (e.g., fire only sees fire disposition codes).	S		
320	Ability to select disposition code from a drop-down list.	S		
321	Ability to provide a text field for disposition comments.	S		
322	Ability to reject a disposition if unsuitable for the incident type.	S		
323	BOLOs			
324	Ability to view BOLOs in the mobile environment.	M		
326	Ability for Agency defined users to input BOLOs.	M		
327	Ability for BOLOs to be saved to central location for later viewing.	M		
328	Queries			
329	General Queries			
330	Ability to query the following systems from CAD on the mobile device	S		
331	<i>CAD</i>	S		
332	<i>RMS</i>	S		
333	<i>Image Trend</i>	S		
334	<i>PCR</i>	S		
335	<i>JMS</i>	S		
336	<i>VCIN</i>	S		
337	<i>NCIC</i>	S		
338	<i>LInX</i>	S		
339	Ability to automatically generate Agency defined queries based on call type.	S		

340	Ability to search and query all appropriate databases without impacting dispatching performance.	S		
341	Ability to query and retrieve premise information for an address not associated with a call for service.	S		
342	Ability to initiate queries with a single key stroke.	S		
343	Ability to use predefined data entry forms/screens (masks) to minimize data transmitted during queries.	S		
344	Ability for Agency to create standard query screen formats (masks).	S		
345	Ability to provide pre-defined data entry/query forms, including, but not limited to:	S		
346	<i>Articles</i>	S		
347	<i>Accident Investigation</i>	S		
348	<i>Driver license query</i>	S		
349	<i>Incident status</i>	S		
350	<i>Location</i>	S		
351	<i>License plate query</i>	S		
352	<i>Logon/logoff</i>	S		
353	<i>Missing person information</i>	S		
354	<i>Name query</i>	S		
355	<i>Premise information query</i>	S		
356	<i>Previous events</i>	S		
357	<i>Vehicles</i>	S		
358	Ability to identify the route to a location identified in a query return.	S		
359	Ability to access query forms by:	S		
360	<i>Command line entry</i>	S		
361	<i>Drop down menus</i>	S		
362	<i>Dedicated function keys</i>	S		
363	Unit History Queries			

364	Ability for users in Agency defined roles to query unit history detail by:	M		
365	<i>Date and time range (i.e., start and end dates or times)</i>	S		
366	<i>Personnel ID</i>	S		
367	<i>Unit ID</i>	S		
368	<i>Apparatus ID</i>	S		
369	<i>Geographic area (e.g., area, beat, sector, grid)</i>	S		
370	Incident Queries			
371	Ability to query and retrieve incident records by one or more of the following factors:	M		
372	<i>Any operator ID associated with the incident</i>	S		
373	<i>Any unit ID assigned to the incident</i>	S		
374	<i>Apparatus ID</i>	S		
375	<i>Caller number</i>	S		
376	<i>Case number</i>	S		
377	<i>Cross streets</i>	S		
378	<i>Date and time range (e.g., start and end data and time parameters)</i>	S		
379	<i>Disposition codes</i>	S		
380	<i>Unit ID</i>	S		
381	<i>Personnel ID</i>	S		
382	<i>Geographic area (e.g., area, beat, sector, grid)</i>	S		
383	<i>Incident number</i>	S		
384	<i>Incident priority</i>	S		
385	<i>Incident type</i>	S		
386	<i>License plate</i>	S		
387	<i>Location or partial location</i>	S		
388	<i>Name (suspect, reporting party, witness, victim)</i>	S		
389	<i>Census tract</i>	S		

390	<i>Reporting district</i>	S		
391	License Plate Queries			
392	Ability for authorized users to enter vehicle stops on the command line or entry form and automatically run the license plate against all available relevant databases.	M		
393	Ability for authorized users to conduct multiple license plate searches without closing the previous search	M		
394	Ability to save all previous license plate searches until user clears data or user logs off	M		
396	Ability for license plate queries to default to:	M		
397	<i>Virginia</i>	S		
398	<i>Current year</i>	S		
399	<i>Passenger Car (PC)</i>	S		
400	Ability to support nested queries (e.g., running a plate also queries registered owner).	S		
401	Query Returns			
402	Ability to save all query returns until user clears data.	S		
403	Ability to save all stored query returns after logoff (e.g., returns are still there the next time user logs onto the system).	S		
404	Ability to produce an alert when a query return contains a record marked as potentially hot (e.g., contains Agency defined keywords such as stolen, wanted, missing):	S		
405	<i>Audible alert</i>	S		
406	<i>Visual alert</i>	S		
407	Ability to produce an alert when a record returns a record containing a stolen vehicle:	S		
408	<i>Audible alert</i>	S		
409	<i>Visual alert</i>	S		

410	Ability for mobile query returns to appear on dispatcher's screen as well as the mobile computer screen if the return contains an Agency defined keyword (e.g., stolen, missing, wanted, felony).	S		
411	Ability to drill down into query returns regarding a potentially hazardous subject, vehicle, and/or location to find the details of that hazard.	S		
412	Ability for vehicle query returns to include make, model, and vehicle color.	S		
413	Ability to sort query results on any returned field.	S		
414	Ability for query results to display on mobile map (if applicable).	S		
415	Incident Command			
416	Ability for the incident command module to be compliant with National Incident Management System (NIMS) requirements.	S		
417	Ability to use the incident command module without wireless connectivity.	S		
418	Ability to limit the ability to initiate incident command functionality to Agency defined authorized users.	S		
419	Ability to limit the ability to view incident command module to Agency defined authorized users.	S		
420	Ability to provide an incident command system that tracks:	S		
421	<i>Personnel on-scene</i>	S		
422	<i>Incident locations</i>	S		
423	<i>Situation status</i>	S		
424	<i>Radio channel(s)</i>	S		
425	<i>Resources</i>	S		
426	<i>Patient counts and status</i>	S		

427	<i>Tasks:</i>	S		
428	<i>Assigned to</i>	S		
429	<i>Status</i>	S		
430	<i>Completed (Y/N)</i>	S		
431	<i>Narrative</i>	S		
432	Ability to export Incident Command data to:	S		
433	<i>Incident Command System (ICS) form</i>	S		
434	<i>National Incident Management System (NIMS) form</i>	S		
435	Ability to print completed forms as a PDF.	S		
436	Ability to export information from the Incident Command module in an XML format.	S		
437	Ability to maintain "administrative" log of all actions taken during incident (e.g., briefings, time stamps).	S		
438	Ability to support incident timers.	S		
439	Ability to associate timers and alerts with specific tasks.	S		
440	Ability for multiple users to enter data in the incident command system simultaneously from separate terminals.	S		
441	Ability to provide an organizational breakdown/hierarchy of resources on scene (e.g., organizational chart).	S		
442	Ability for each Agency to define hierarchy of positions based on response type (e.g., initial incident command, rapid intervention).	S		
443	Ability for Agency to change hierarchy of positions on scene on the fly.	S		
444	Ability for each Agency to define tasks necessary to complete as determined by the incident type.	S		
445	Ability to provide messaging capabilities within the Incident Command module.	S		
446	Ability to have templates that are dedicated to specific functional areas (e.g., treatment areas, staging areas.).	S		

447	Ability to link certain data fields to a global view within the incident command module (e.g., provide high level summary of each functional area on a master display).	S		
448	Ability to use incident command modules from various mobile devices (MDC, wireless laptop, handheld device).	S		
449	Incident Diagramming			
450	Ability to provide a scene diagramming tool.	S		
451	Ability for diagramming tool to support three-dimensions.	S		
452	Ability to support plume modeling.	S		
453	Ability to support fire modeling.	S		
454	Ability to provide standard icons to be used within the scene diagramming tool (e.g., building, apparatus).	S		
455	Ability to provide a free-form drawing tool on the scene diagramming feature.	S		
456	Ability to add text to any drawn images.	S		
457	Ability to support "white-board" functionality (e.g., user edits a large white board with data automatically sent electronically to the system).	S		
458	Ability to import mobile map onto incident "white-board".	S		
459	Ability to import images onto "white-board".	S		
460	Ability to import a preplan or GIS layer.	S		
461	Ability to add information to an imported preplan or GIS layer.	S		
462	Ability to zoom in and out of diagramming tool.	S		
463	Ability to export incident diagram to:	S		
464	<i>PDF</i>	S		
465	<i>Image</i>	S		
466	<i>Word</i>	S		

Item #	CAD Functional Requirements	Mandatory/ Suggested	Functionality Met (Y/N)	Comments
	General CAD Requirements			
1	Ability to handle multiple types of public safety agencies within the same jurisdiction:	M		
2	<i>Law Enforcement</i>	S		
3	<i>Fire-EMS</i>	S		
4	<i>Public Works</i>	S		
5	<i>Emergency Management</i>	S		
6	<i>Either call taking or dispatching functions</i>	S		
7	<i>Both call taking and dispatching functions</i>	S		
8	Ability to comply with relevant NPFA standards (e.g., 1221, 1061, 1710) regarding installation, maintenance and usage of emergency services communications systems.	M		
9	Ability to comply with published NENA NG911 standards.	S		
10	Ability to comply with NIEM standards.	S		
11	Ability to comply with APCO/IJIS Unified CAD Functional Requirements.	S		
12	Ability to capture all CAD transactions in an audit log, including but not limited to:	S		
13	<i>Call received</i>	S		
14	<i>Call transferred from E9-1-1 to CAD system</i>	S		
15	<i>Call for service created (call entered into system)</i>	S		
16	<i>Geo verification</i>	S		
17	<i>Transferred to dispatcher (call entered)</i>	S		
18	<i>Narrative updates</i>	S		
19	<i>Incident name, address or phone number updated</i>	S		

20	<i>Caller name, address or phone number updated</i>	<i>S</i>		
21	<i>Call priority change</i>	<i>S</i>		
22	<i>Call response requirements changed</i>	<i>S</i>		
23	<i>Call incident type changed</i>	<i>S</i>		
24	<i>CAD recommended responses and what capabilities each unit was fulfilling</i>	<i>S</i>		
25	<i>Closest unit with required capabilities</i>	<i>S</i>		
26	<i>Call dispatched</i>	<i>S</i>		
27	<i>Call assigned to unit's call queue</i>	<i>S</i>		
28	<i>Unit receives call</i>	<i>S</i>		
29	<i>Unit reviews call (if different from unit receives call)</i>	<i>S</i>		
30	<i>Any status change</i>	<i>S</i>		
31	<i>Any change in unit location</i>	<i>S</i>		
32	<i>Other agency notifications</i>	<i>S</i>		
33	<i>Subsequent dispatcher reviews call</i>	<i>S</i>		
34	<i>Any review of Hazards/Premise alerts or flags</i>	<i>S</i>		
35	<i>Additional units added to call</i>	<i>S</i>		
36	<i>Call transferred to another agency</i>	<i>S</i>		
37	<i>Cleared from call</i>	<i>S</i>		
38	<i>Call re-routed</i>	<i>S</i>		
39	<i>Incident closed</i>	<i>S</i>		
40	<i>Incident reopened</i>	<i>S</i>		
41	<i>Incident supplemented</i>	<i>S</i>		
42	<i>Last-known unit location</i>	<i>S</i>		
43	<i>Pre-empt (swap unit between incidents)</i>	<i>S</i>		
44	<i>Vehicle number</i>	<i>S</i>		
45	<i>Error messages</i>	<i>S</i>		
46	Ability to access a browser-based CAD on a PDA (e.g., smartphone, tablet):	<i>S</i>		
47	<i>Read-only purposes</i>	<i>S</i>		

48	<i>Entering calls</i>	S		
49	Application User Interface			
50	Ability for the agency to determine which window configuration options are configurable at the user level.	S		
51	Ability for users to customize window views, including, but not limited to:	S		
52	<i>Font size</i>	S		
53	<i>Font colors</i>	S		
54	<i>Font type</i>	S		
55	<i>Window background color</i>	S		
56	<i>Window sizes</i>	S		
57	<i>Window locations</i>	S		
58	<i>Fields displayed</i>	S		
59	<i>Order in which fields are displayed</i>	S		
60	Ability for users to disable selected audible alerts.	S		
61	Ability to save windows configurations based on user IDs (e.g., not workstation-specific).	S		
62	Ability to save windows configurations based on user role (i.e. Fire Dispatch, Police Dispatch, Calltaker, Supervisor, etc).	S		
63	Ability for all configured colors to match throughout the application (e.g., unit status color is the same in active queue as displayed in map).	S		
64	Ability to allow a return to system default settings.	S		
65	Ability to perform commands using any of the following methods:	S		
66	<i>Agency defined function keys</i>	S		
67	<i>Agency defined shortcuts</i>	S		
68	<i>Command lines</i>	S		
69	<i>Toolbar</i>	S		

70	<i>Keyboard</i>	S		
71	<i>Mouse click</i>	S		
72	<i>User defined function keys (hot keys)</i>	S		
73	Ability to execute any CAD function using the keyboard (list exceptions).	S		
74	Ability to execute any CAD function using the mouse (list exceptions).	S		
75	Ability to provide type ahead (e.g., auto-complete) capability such that the user can continue entering data while the system is processing a previous transaction.	S		
76	Ability to disable type ahead capability at the:	S		
77	<i>System level</i>	S		
78	<i>User level</i>	S		
79	Ability to prompt user of subsequent fields required for completion on command line.	S		
80	Ability to display system messages without affecting work in progress.	S		
81	Ability to minimize or maximize any activity screen.	S		
82	Ability to have multiple windows open at the same time.	S		
83	Ability to alert user if information is updated in minimized window	S		
84	Ability to tile or cascade multiple windows on screen.	S		
85	Ability to provide multiple command lines.	S		
86	Ability to create a new command line with a single keystroke.	S		
87	Ability to dedicate a command line to a distinct incident.	S		
88	Ability to enter commands in any order on the command line.	S		
89	Ability to enter more than one command on a single command line.	S		
90	Ability for narrative fields to have the following attributes:	S		

91	<i>Unlimited number of characters</i>	S		
92	<i>Word wrap</i>	S		
93	Ability to use arrow and tab keys to scroll within a window.	S		
94	Ability to display one or more status windows at the same time.	S		
95	Call Taking			
96	Call Receipt			
97	Ability to receive call data from:	M		
98	<i>E9-1-1 phone system</i>	M		
99	<i>Non-emergency 10 digit phone numbers</i>	S		
100	<i>Private alarm companies/ASAP interface</i>	S		
101	<i>Text-2-911</i>	S		
102	<i>IP-based sources</i>	S		
103	Ability to include spacing or hyphens when displaying phone numbers (e.g., 434 999 9999 or 434-999-999), rather than a string of 10 digits (4349999999).	S		
104	Ability to automatically populate a call for service screen when a call is answered through the phone system with all fields available from the phone Ani/ALI controller listed in Call Date Entry section):	S		
105	<i>Administrative hard wired phone line</i>	S		
106	<i>Hard wired 9-1-1 phone line</i>	S		
107	<i>Wireless 9-1-1 line</i>	S		
108	<i>Ability to automatically display historical information for a configurable time period based on(In a separate window):</i>	M		
109	<i>Caller name</i>	M		
110	<i>Caller address</i>	M		
111	<i>Caller Phone Number</i>	S		

112	Call Data Entry			
113	Ability for users to use either preformatted screens or command lines for incident entry.	S		
114	Ability to provide dedicated fields to capture all incoming call information from the E9-1-1 system, including, but not limited to:	S		
115	<i>Caller name</i>	S		
116	<i>Caller telephone number</i>	S		
117	<i>Caller address:</i>	S		
118	<i>Street address</i>	S		
119	<i>Apartment number</i>	S		
120	<i>Building number</i>	S		
121	<i>Suite number</i>	S		
122	<i>Floor</i>	S		
123	<i>City/Town</i>	S		
124	<i>Common place name</i>	S		
125	<i>State</i>	S		
126	<i>Incident location:</i>	S		
127	<i>Street address</i>	S		
128	<i>Apartment number</i>	S		
129	<i>Building number</i>	S		
130	<i>Suite number</i>	S		
131	<i>Floor</i>	S		
132	<i>City/Town</i>	S		
133	<i>Common place name</i>	S		
134	<i>State</i>	S		
135	<i>Telephone call class of service</i>	S		
136	<i>Alternate telephone number</i>	S		
137	<i>Cellular phone service provider</i>	S		
138	<i>Phase I or Phase II accuracy information</i>	S		

139	<i>X/Y coordinates</i>	<i>M</i>		
140	<i>Text message? (Y/N)</i>	<i>S</i>		
141	<i>IP address (assuming phone system is NG911 capable)</i>	<i>S</i>		
142	<i>TTY conversation? (Y/N)</i>	<i>S</i>		
143	<i>Foreign language line required? (Y/N)</i>	<i>S</i>		
144	<i>Modifying circumstances (e.g., delayed entry)</i>	<i>S</i>		
145	<i>See complainant? (Y/N)</i>	<i>S</i>		
146	<i>Handle by phone/phone message? (Y/N)</i>	<i>S</i>		
147	<i>Any other information captured by the E9-1-1 system</i>	<i>S</i>		
148	<i>Agency defined field or reference number</i>	<i>S</i>		
149	Ability to attach multimedia messages (MMS), including videos or pictures taken by citizens, to a call.	<i>S</i>		
151	Ability to transfer reporting party location information into CAD incident location field upon verbal verification that address is the same (e.g., hit a function key to populate, otherwise call taker enters address manually).	<i>S</i>		
152	Ability to enter multiple callers/witnesses/suspects for a single incident into defined fields (not narrative).	<i>S</i>		
153	Ability to enter standard vehicle information in defined fields and record the entered information as part of the incident record.	<i>S</i>		
154	Ability for agency to configure the format in which subject date of births are entered.	<i>S</i>		
155	Ability to generate an incident from a previous incident.	<i>S</i>		
156	Ability to generate an incident from a previous incident across agencies (e.g., Law Enforcement to Fire and vice versa).	<i>S</i>		

157	Ability to automatically generate an incident from validated information received from an private alarm monitoring company/ASAP interface.	S		
158	Ability for dispatcher to identify comments in narrative as priority comments that are distinct from other routine comments	S		
159	Ability to filter narrative so only comments are shown and system generated audit remarks are hidden	S		
160	Ability to automatically accent comments in narrative entered by different call takers (e.g. different colors)	S		
161	Location Capture			
162	Ability to relate X/Y coordinates to an actual address.	S		
163	Ability to display X/Y coordinates to a map for display	S		
164	Ability to display wireless location area of uncertainty on map	S		
165	Ability to capture incident location separately from caller location.	S		
166	Ability to enter a location for an event by the following methods:	S		
167	<i>Street address</i>	S		
168	<i>Block number or address range</i>	S		
169	<i>Common place name</i>	S		
170	<i>Landmark</i>	S		
171	<i>Intersecting street names</i>	S		
172	<i>Interstate highways:</i>	S		
173	<i>Interstate highway number</i>	S		
174	<i>Mile markers</i>	S		
175	<i>Exit numbers</i>	S		
176	<i>Railroad tracks</i>	S		
177	<i>Rivers</i>	S		

178	<i>Streams</i>	S		
179	<i>Trails/Greenways</i>	S		
180	<i>X/Y coordinates</i>	S		
181	<i>Z or elevation when available</i>	S		
182	<i>Point and click on a map</i>	S		
183	Ability to suggest locations based on type-ahead (e.g., autofill) capabilities or partial entry for:	S		
184	<i>Street addresses</i>	S		
185	<i>Intersections</i>	S		
186	<i>Common places</i>	S		
187	Ability to type in either street first when entering intersections.	S		
188	Ability to save intersections as identical address points regardless of order of streets entered (e.g., 1st/Main same as Main/1st).	S		
189	Ability to enter addresses on one line.	S		
190	Ability for system to automatically parse address data into address data fields including:	S		
191	<i>Street number</i>	S		
192	<i>Street name</i>	S		
193	<i>Street prefix</i>	S		
194	<i>Street suffix (NW, SW, NE, SE)</i>	S		
195	<i>Street type (Av, Ln, Bd, "None")</i>	S		
196	<i>Unit type</i>	S		
197	<i>Unit number</i>	S		
198	<i>Floor</i>	S		
199	<i>Suite number</i>	S		
200	<i>Building number</i>	S		
201	<i>Apartment number</i>	S		
202	<i>City</i>	S		

203	<i>County</i>	S		
204	<i>State</i>	S		
205	<i>Route number</i>	S		
206	Ability to accept spelled numbers (e.g., one, twenty, first).	S		
207	Ability to capture the following information upon receipt of a wireless 9-1-1 call:	S		
208	<i>Street address of tower</i>	S		
209	<i>X/Y coordinates</i>	S		
210	<i>Uncertainty factor for location information</i>	S		
211	<i>Point and uncertainty radius of caller</i>	S		
212	<i>Z or elevation when available</i>	S		
213	Location Verification			
214	Ability to verify any address entered into the system (e.g., updated field personnel locations, field personnel-initiated incidents).	M		
215	Ability to provide user a list to select from if multiple street addresses/street names/intersections with the same names are found in geofile.	S		
216	Ability to offer a list of address options if multiple similar addresses/intersections/street names are found in geofile.	S		
217	Ability to conduct multiple searches so that, if there is no address match, the system will continue to search for possible address matches and present user with a list of possible matches.	S		
218	Ability to display closest address matches based on:	S		
219	<i>Block ranges</i>	S		
220	<i>Building name</i>	S		
221	<i>Business name</i>	S		
222	<i>Premise name</i>	S		
223	<i>Common place names</i>	S		

224	<i>Intersections</i>	S		
225	<i>Phonetic spelling</i>	S		
226	<i>Soundex</i>	S		
227	<i>Street name</i>	S		
228	<i>Proximity to Wireless location X/Y coordinates</i>	S		
229	Ability to display associated common place, business or premise names along with street address when a matching street address is found during the address verification process.	S		
230	Ability to enter a valid street name and be presented with:	S		
231	<i>Aliases</i>	S		
232	<i>Associated address ranges</i>	S		
233	<i>List of cross streets</i>	S		
234	<i>Ability to translate call location to appropriate public safety geographical boundary (e.g. district, beat, sector, etc.).</i>	S		
235	Ability to translate alias names to actual street names or addresses.	S		
236	Ability to display, on a map the incident location in relation to other active incidents on the map during the incident entry process.	S		
237	Ability to display geofile data when location is validated.	S		
238	Ability to manually override address if not verified by geofile using a nearby address and use public safety boundaries from nearby address for response recommendations.	M		
239	Ability to log all locations that fail geofile validation.	S		
240	Ability to create a report of all overridden geoverified locations.	S		
241	Ability for the notification of correction to capture the following:	S		

242	<i>Address/location information as presented (ANI/ALI information)</i>	S		
243	<i>Address/location data as corrected by the user</i>	S		
244	<i>Date/time of report</i>	S		
245	<i>User ID</i>	S		
246	Ability to perform address verification manually without creating an event.	S		
247	Call Classification and Prioritization			
248	Ability to provide an option to generate automatic notifications to appropriate personnel upon entry of Agency defined call types.	S		
249	Ability for the agency to establish which notifications require user-confirmation, prior to being sent.	S		
250	Ability to display a drop down list containing incident types.	S		
251	Ability to dynamically filter data displayed in drop down list as user enters characters.	S		
252	Ability for system to automatically enter the appropriate Agency defined priority for each new incident based on call type.	S		
253	Ability to override incident priority.	S		
254	Ability to allow the authorized user to manually upgrade or downgrade the system-assigned priority.	S		
255	Ability for the system to recognize an escalating alarm level as a single incident and clearly identify when the alarm level was upgraded.	S		
256	Ability for user to change call type.	S		
257	Incident Initiation			
258	Ability to enter incidents using:	S		
259	<i>Standard call entry screen form</i>	M		

260	<i>CAD command on a command line</i>	S		
261	<i>Map by clicking on a location</i>	S		
262	<i>Automatically open a new incident initiation screen on call answer</i>	S		
263	Ability to input all call and narrative information on one screen.	S		
264	Ability to display a blank form for entering new incidents with a single keystroke, mouse click or function key upon initiation of a CAD incident.	S		
265	Ability to recommend associated incident types for other agencies during incident initiation (i.e. recommend medical incident when law traffic collision incident is created).	S		
266	Ability to override recommend associated incident types during incident initiation.	S		
267	Ability to copy an existing incident to create a new incident at the same location for same or different agencies.	S		
268	Ability for both original and copied incidents to indicate their relationship	S		
269	Ability for associated incidents to display comments entered in either incident by default.	S		
270	Ability for dispatcher to identify comments that do not get copied to associated incidents (e.g. criminal justice information)	S		
271	Duplicate Call Management			
272	Ability to automatically identify potential duplicate calls regardless of agency based on:	S		
273	<i>Caller name</i>	S		
274	<i>Incident/type code</i>	S		
275	<i>Configured proximity to current incident</i>	S		

276	<i>Configured radius around incident location</i>	S		
277	<i>Specific incident address/event location</i>	S		
278	Ability to display proximity calls on a map (e.g., to assist dispatchers in identifying possible duplicate calls).	S		
279	Ability to include pending calls in the potential duplicate call identification process.	S		
280	Ability to include field-initiated calls in the potential duplicate call identification process.	S		
281	Ability to include recently closed incidents in the potential duplicate call identification process.	S		
282	Ability for system administrator to define "recently closed" through a configuration parameter (e.g., time period).	S		
283	Ability to manually identify a duplicate call.	S		
284	Ability for an incident to be manually identified as a duplicate after call entry has been completed.	S		
285	Ability to provide the dispatcher with the following information about possible duplicate incidents:	S		
286	<i>Incident location</i>	S		
287	<i>Incident status</i>	S		
288	<i>Incident type</i>	S		
289	<i>Caller name and phone number</i>	S		
290	<i>Time the incident was initiated</i>	S		
291	<i>Incident narrative</i>	S		
292	<i>Units assigned</i>	S		
293	<i>User-defined proximity to current incident</i>	S		
294	<i>Original call taker</i>	S		
295	Ability for the dispatcher to do any of the following if a CAD incident is determined to be a duplicate call:	S		

296	Add to the original incident record a second complainant with complete complainant information and additional incident comments	S		
297	Cancel the call	S		
298	Close a duplicate incident and associate it to the original CAD incident	S		
299	Create an entirely new incident using existing address data	S		
300	Ability to alert the dispatcher when additional calls are merged to the original call.	S		
301	Ability to filter duplicate calls out of reports.	S		
302	Hazard, Premise and Historical Information Retrieval			
303	Ability to automatically display previous calls for service at the verified location.	S		
304	Ability to display the number of previous calls at a location.	S		
305	Ability to automatically initiate a search for hazards, premise or historical information upon address verification, based on:	M		
306	Address with sub-address (i.e., unit number, building floor, apartment number, building complex number/letter)	S		
307	Block ranges	S		
308	Current business name	S		
309	Historic business name (unlimited)	S		
310	Common place names	S		
311	Intersections	S		
312	Ability to query hazard and premise files from any associated data field.	S		
313	Ability to obtain hazard and premise information by double-clicking on map location.	S		

314	Ability for automatic search to include the following databases:	S		
315	<i>Police Records Management System</i>	S		
316	<i>Fire-EMS Records Management System</i>	S		
317	<i>Agency defined file</i>	S		
318	<i>Any CAD file containing address information (e.g., trespass, hazardous materials, premise history)</i>	S		
319	Ability to retrieve any hazard information from external SQL databases based on:	S		
320	<i>Names entered into call for service record</i>	S		
321	<i>Locations entered into call for service record</i>	S		
322	<i>Vehicles entered into call for service record</i>	S		
323	<i>Caller or Incident phone numbers</i>	S		
324	Ability to attach any premise or hazard information to a CAD call.	S		
325	Ability for map to display all known hazards within a user-defined radius.	S		
326	Ability to clearly display the presence of:	S		
327	Hazard information	S		
328	Premise history	S		
329	Ability for a user to quickly access hazard or premise information related to a call.	S		
330	Ability to include hazards for all addresses associated with a call for service.	S		
331	Ability to filter the hazard information that is displayed by agency (e.g., have fire agencies' information, such as pre-plans, available to law enforcement agencies, but allow the law enforcement agencies to filter whether or not the flags are displayed).	S		
332	Incident Scheduling			

333	Ability to enter incidents scheduled for dispatching at a later time (e.g., several hours/days later), maintaining the original time of entry.	S		
334	Ability to modify incidents scheduled for dispatching at a later time (e.g., several hours/days later), maintaining the original time of entry.	S		
335	Ability to cancel incidents scheduled for dispatching at a later time (e.g., several hours/days later), maintaining the original time of entry.	S		
336	Ability to schedule a type of incident to occur on a regular basis (i.e., recurring incident) for a user-defined period of time (e.g., extra patrol while a homeowner is on assignment, or extra patrol to target a particular nuisance).	S		
337	Call Routing			
338	Ability to send call for service to appropriate controlling dispatcher based on:	S		
339	<i>Location of incident</i>	S		
340	<i>Agency (e.g., law enforcement or fire)</i>	S		
341	<i>Incident</i>	S		
342	Ability to manually designate (or override automatic routing recommendation) console to which a call will be sent.	S		
343	Ability for authorized users to create temporary geographical zones by agency and any calls initiated within those zones be routed to specific workstations and have specific response plans.	S		
344	CAD Mapping Requirements			
345	Ability for mapping functionality to be integrated into CAD application.	S		
346	Ability to view on map the locations of:	S		

347	<i>Incoming 911 caller</i>	<i>M</i>		
348	<i>Incident location during address verification</i>	<i>S</i>		
349	<i>All pending and active 9-1-1 calls</i>	<i>S</i>		
350	<i>Units based on AVL or last known locations</i>	<i>S</i>		
351	Ability to display an address on the map when it is entered into the command line.	<i>S</i>		
352	Ability to pull up a call for service and have it automatically show up on the map.	<i>S</i>		
353	Ability to select a unit and have its last known location automatically display on the map.	<i>S</i>		
354	Ability to zoom in and center map display on:	<i>S</i>		
355	<i>Incident location during address verification.</i>	<i>S</i>		
356	<i>CAD incident in active window</i>	<i>S</i>		
357	<i>Last known location of a selected unit (AVL or unit status)</i>	<i>S</i>		
358	<i>Vehicle in pursuit mode</i>	<i>S</i>		
359	<i>Vehicle activating emergency button</i>	<i>S</i>		
360	Ability to utilize color, text, and/or symbols to distinguish status of unit.	<i>S</i>		
361	Ability to display anticipated travel time between two points on a map.	<i>S</i>		
362	Ability to provide directions to an incident from a unit's last known location or, if available, current location based on AVL.	<i>S</i>		
363	Ability for operational user to close streets by clicking on a specific area (e.g., street, hundred block area) from the CAD map.	<i>S</i>		
364	Ability to adjust routing recommendations based on closed streets.	<i>S</i>		

365	Ability for user to define an expected duration for street closures.	S		
366	Ability to alert user when the expected duration for a street closure has expired.	S		
367	Ability to push closed street information to all system users.	S		
368	Ability to select vehicles to display on map by user-defined criteria including, but not limited to:	S		
369	<i>Dispatcher Role (i.e. Police Dispatch, Call taker, etc)</i>	S		
370	<i>Beat</i>	S		
371	<i>Incident number</i>	S		
372	<i>Incident type</i>	S		
373	<i>Reporting district</i>	S		
374	<i>Sector</i>	S		
375	<i>Station</i>	S		
376	<i>Status</i>	S		
377	<i>Type (e.g., police unit, fire apparatus)</i>	S		
378	<i>Personnel skills</i>	S		
379	<i>Unit ID</i>	S		
380	Ability to display associated street block numbers for intersections.	S		
381	Automatic Vehicle Location (AVL)			
382	Ability to support the use of a continuous, real-time AVL system via a CAD interface.	M		
383	Ability to support Agency defined AVL polling intervals.	S		
384	Ability to control AVL functionality from within the context of CAD so that the user does not have to leave the CAD workstation keyboard or mouse.	S		
385	Ability to turn AVL on/off by:	S		
386	<i>Agency</i>	S		

387	<i>Unit</i>	S		
388	Ability for agencies to define who is able to view unit locations.	S		
389	Ability to optionally recommend units for dispatch based on closest unit based on AVL determined travel time.	S		
390	Ability to use Agency defined defaults for recommendation when AVL is not available or desired for the specific call.	S		
391	Ability to display the location of all units regardless of status.	S		
392	Ability to automatically refresh current vehicle location at Agency defined intervals.	S		
393	Ability to query AVL for current vehicle location regardless of refresh interval	S		
394	Ability to display average speed of vehicle between two points when data is polled.	S		
395	Ability to log specific X/Y coordinates and speeds for all AVL equipped units.	S		
396	Ability to query the AVL log based on any combination of Incident, Unit, Vehicle ID, Agency, Date/Time range or specific geographical area.	S		
397	Ability to playback the records retrieved from the log on a map display at normal or accelerated rates.	S		
398	Ability to view playback where full CAD license isn't required			
399	Ability to automatically update unit status as en route to a call upon exiting the station to respond to a call for service.	S		
400	Ability to automatically update unit status to arrived on scene if AVL indicate vehicle is within agency defined distance of incident location and no longer moving.	S		

401	Ability to automatically alert the dispatcher with a message and audible alert when AVL indicate a vehicle moves beyond agency defined distance of incident location while status is still on scene.	S		
402	Dispatching			
403	CAD Incident Retrieval			
404	Ability to alert a dispatcher to the arrival of a new incident.	M		
405	Audible alert	S		
406	Visible alert	S		
407	Ability to alert a dispatcher to the arrival of new incident information from the call taker:	S		
408	Audible alert	S		
409	Visible alert	S		
410	Ability to retrieve a CAD incident and review all available information already entered up to the point of incident retrieval.	S		
411	Ability to retrieve the oldest, highest priority incident from the pending incidents queue for review or dispatch with a single key or click.	S		
412	Ability to review each pending incident sequentially.	S		
413	Ability to keep incidents in pending queue indefinitely.			
414	Resource Recommendation			
415	Ability to automatically provide appropriate resource recommendations based on any combination of:	S		
416	<i>Closest unit based on AVL location taking into account:</i>	S		
417	<i>Natural boundaries</i>	S		
418	<i>Obstacles/Closed streets</i>	S		
419	<i>Traffic</i>	S		
420	<i>Speed limits</i>	S		

421	<i>Street network</i>	S		
422	<i>Street direction</i>	S		
423	<i>Equipment capabilities</i>	S		
424	<i>Unit role (i.e. patrol vs supervisor)</i>	S		
425	<i>Special equipment required</i>	S		
426	<i>Number of units required</i>	S		
427	<i>Number of type of special skills units required</i>	S		
428	<i>Unit status</i>	S		
429	<i>Pre-defined response plans (response area plan)</i>	S		
430	<i>Incident area (e.g., unique response for specific response area)</i>	S		
431	<i>Incident location (e.g., unique response for specific location)</i>	S		
432	<i>Incident type</i>	S		
433	<i>Multiple response routes</i>	S		
434	<i>Occupancy type (e.g. residential, office building, etc.)</i>	S		
435	<i>Special conditions (e.g., heightened response, reduced severe weather response, etc)</i>	S		
436	Ability to recommend ten or more units for an incident.	S		
437	Ability to make resource recommendations based on Agency defined:	S		
438	<i>Recurring conditions (e.g., rush hour traffic)</i>	S		
439	<i>Ad hoc conditions</i>	S		
440	<i>Scheduled conditions</i>	S		
441	Ability for each agency using the CAD system (i.e., Law and Fire) to enable and disable agency-specific resource recommendations.	S		
442	Ability to prioritize unit response based on incident type so that appropriate units are automatically recommended and/or dispatched in priority order.	S		

443	Ability to re-recommend closest units, when:	S		
444	<i>A closer unit comes into service</i>	S		
445	<i>A unit fails to respond after an Agency defined time period</i>	S		
446	Ability to highlight to the dispatcher any response requirements that cannot be fulfilled	S		
447	Ability for system to update the unit recommendation if user makes relevant incident information changes (e.g., type, location, alarm level).	S		
448	<i>Show units already assigned to incident and additional units recommended based on update</i>	S		
449	<i>Show assigned units no longer required on update</i>	S		
450	Ability to record the unit recommendation:	S		
451	<i>As it was presented to the dispatcher</i>	S		
452	<i>Including required capability each unit was filling</i>	S		
453	<i>Including any un-fulfilled requirements</i>	S		
454	Audit function that allows supervisor/administrator to determine why particular units were recommended. Specifically why other units in the response plan were not recommended.	S		
455	Resource Determination			
456	Ability to bring up a list of special skills/equipment for:	S		
457	<i>All personnel logged on</i>	S		
458	<i>A selected person</i>	S		
459	<i>Apparatus/vehicle</i>	S		
460	Ability to identify all personnel with a specific skill (e.g., language, training) by:	S		
461	<i>Logged on and available</i>	S		
462	<i>Logged on and not available (e.g., on another incident)</i>	S		
463	<i>Not logged on</i>	S		

464	Ability to display potentially available resources based on unit status:	S		
465	<i>Assigned to a CAD call</i>	S		
466	<i>Assigned to a CAD call with a lower priority</i>	S		
467	<i>Unassigned</i>	S		
468	Resource Dispatch			
469	Ability for dispatcher to select and assign/re-assign recommended units using any of the following methods:	S		
470	<i>Command line entry</i>	S		
471	<i>Function key</i>	S		
472	<i>Mouse:</i>	S		
473	<i>Drag and drop onto map</i>	S		
474	<i>Drag and drop onto incident</i>	S		
475	Ability to preempt units on a call to respond to a different incident.	S		
476	Ability to dispatch units by:	S		
477	<i>Accepting the proposed application recommended units</i>	S		
478	<i>Selecting and dispatching units other than those recommended by the application</i>	S		
479	<i>Selecting some, but not all, of the recommended units</i>	S		
480	Ability to log all recommendation overrides in the audit trail (e.g., recommended units and dispatched units).	S		
481	Ability for CAD application to do the following upon dispatch:	S		
482	<i>Assign the recommended or requested units</i>	S		
483	<i>Initiate alert notifications</i>	S		
484	<i>Remove the incident from the pending queue</i>	S		
485	<i>Send the incident to the assigned unit's mobile computer</i>	S		

486	<i>Start the status timers</i>	S		
487	<i>Update the status display</i>	S		
488	Ability to dispatch ten or more units at a time to the same call.	S		
489	Ability for dispatcher to assign a CAD incident to one or more units by "dragging and dropping" the units onto the CAD incident.	S		
490	Ability to assign a unit to an incident to which it was not originally recommended.	S		
491	Ability to assign additional units to an incident:	S		
492	<i>From the Command Line</i>	S		
493	<i>Drag and Drop</i>	S		
494	<i>Through the incident dispatch screen</i>	S		
495	Ability to dispatch additional units as backup by referencing an existing unit on a call by unit number	S		
496	Ability to dispatch to multiple types of telecommunications devices simultaneously including, but not limited to:	S		
497	<i>Mobile computer</i>	S		
498	<i>Smart phone</i>	S		
499	<i>Cell phone</i>	S		
500	<i>Pager</i>	S		
501	Ability to configure the system to push out different information based on the receiving device (e.g., short message to alphanumeric paging device and full dispatch message to mobile computer).	S		
502	Ability to send dispatches to printers (e.g., "rip and run" printers in fire stations).	S		
503	Ability to exchange units between assigned incidents	S		

504	Ability to take a unit off a call and reassign the unit to a new call via:	S		
505	<i>Single command</i>	S		
506	<i>Drag and drop</i>	S		
507	Ability to use one command to both dispatch and put "on scene" field personnel (e.g., if field personnel is "out with another unit").	S		
508	Timers			
509	Ability to provide incident and unit timers and alerts based upon Agency defined parameters:	M		
510	<i>Unit Status</i>	S		
511	<i>Pending Incidents by priority</i>	S		
512	<i>Stacked incidents</i>	S		
513	Ability to manually set/re-set incident and unit timers and log this action in the incident or unit history	S		
514	Ability to display incident/unit count down timers on CAD screens.	S		
515	Ability to alert dispatcher to the expiration of the timer via:	S		
516	<i>Audible alert</i>	S		
517	<i>Visual alert</i>	S		
518	Ability to record acknowledgement of timer alert.	S		
519	Ability to provide the dispatcher the following options when a status timer expires:	S		
520	<i>Modify to new time value</i>	S		
521	<i>Reset to default value</i>	S		
522	Field-Initiated Calls for Service			
523	Ability to enter agency defined field-initiated incidents (e.g., traffic stop).	S		
524	Ability to display field-imitated calls for service as visually distinct from call-center imitated calls for service.	S		

525	Ability to add additional units to a field-initiated incident (e.g., traffic stop, subject stop).	S		
526	Ability to verify addresses of field-initiated incidents.	S		
527	Ability for dispatcher to use one command line to enter a field-initiated incident and place the initiating unit on-scene.	S		
528	Ability to provide dedicated fields for the dispatcher to record the following information when a unit is placed in a traffic stop status:	S		
529	<i>Location of the stop</i>	S		
530	<i>Number of occupants in the vehicle</i>	S		
531	<i>Vehicle license plate</i>	S		
532	<i>License plate type</i>	S		
533	<i>State of registration</i>	S		
534	<i>Make, model and color of vehicle</i>	S		
535	Ability to alert the dispatcher when a field-initiated call for service is added:	S		
536	<i>Audible alert</i>	S		
537	<i>Visual alert</i>	S		
538	Ability to provide dedicated fields for the dispatcher to record the following information when a unit is checking a suspicious subject:	S		
539	<i>Location of the stop</i>	S		
540	<i>Number of subjects</i>	S		
541	<i>Vehicle license plate</i>	S		
542	<i>State of registration</i>	S		
543	<i>Name</i>	S		
544	<i>Date of birth</i>	S		
545	<i>Driver license number</i>	S		
546	<i>Social security number</i>	S		

547	<i>Make, model and color of vehicle</i>	S		
548	Ability for dispatcher to put a unit on a traffic stop and run the plate in one step.	S		
549	Ability for dispatcher to put a unit on a subject stop incident and run a wanted check in one step.	S		
550	Ability for field personnel to initiate an administrative incident (e.g., put units out on training or drills).	S		
551	Ability to populate a VCIN/NCIC Hit Confirmation query mask with data in the incident record (i.e. Name, Date of birth, Social security number, etc) without cutting and pasting (e.g., with a function key or one or two key strokes):	S		
552	Call Stacking/Queuing			
553	Ability to hold an incident for a specific unit.	S		
554	Ability to automatically (without user intervention) notify the dispatcher of a held incident when the unit becomes available.	S		
555	Ability to hold more than one incident for a given unit or resource (call stacking).	S		
556	Ability for the agency to set time limits for stacked calls by priority (e.g., a queue limit of two hours for priority 5 calls and one hour for priority 3 calls).	S		
557	Ability for authorized user to set queue limits for numbers of incidents allowed to be stacked in a given queue.	S		
558	Ability for administrator to turn call stacking on and off by agency	S		
559	Ability for administrator to turn call stacking on and off by agency based on call type.	S		
560	Call Preemption			
561	Ability to pull a unit off an incident and reassign the unit to a new incident.	S		

562	Ability to return CAD incident to the pending dispatch queue if all units are removed from an active incident.	S		
563	Ability to visually indicate a preempted call (e.g., color code).	S		
564	Fire Move-Up Management			
565	Ability to identify station coverage deficiencies based on Agency defined parameters.	S		
566	Ability for a move-up to generate a new incident.	S		
567	Ability to recommend move-ups based on:	M		
568	<i>Fixed station order</i>	S		
569	<i>Current vehicle location (e.g., AVL)</i>	S		
570	<i>Alarm levels</i>	S		
571	Ability for dispatchers to:	S		
572	<i>Accept move-up recommendations</i>	S		
573	<i>Override move-up recommendations</i>	S		
574	Ability to reverse move-ups as apparatus clear calls.	S		
575	Ability to distinguish between assigned units and units in move-up or cover status.	S		
576	Ability to provide an alert when locations are nearing station coverage deficiencies.	S		
577	Ability for move-up recommendations to take into account units from neighboring jurisdictions.	S		
578	Ability for move-up recommendations to take into account the number of nearby units that are attending the incident and recommend units from farther away (e.g., pull units from 5 miles away as opposed to 2 miles away to prevent a coverage "black hole").	S		
579	Ability to manually move-up units to a different station independent of coverage deficiencies	S		

580	Ability to send a station alert and print out to a unit that needs to move to another station	S		
581	Ability to route station alerts and print outs for units in move-up status to their temporary station	S		
582	Unit Management			
583	Unit Placement in Service			
584	Ability to define a roster (e.g. squad, company, etc.) for the following agency types:	S		
585	<i>Fire/EMS</i>	S		
586	<i>Law enforcement</i>	S		
587	Ability to log on units on a roster on-duty/off-duty with a single command (e.g., Fire/EMS roll call).	S		
588	Ability to automatically log one or more units on-duty/off-duty based on roster day/times.	S		
589	Ability to place all units in a previously defined roster in a preconfigured status.	S		
590	Ability to place all units in a previously defined roster in a specified status.	S		
591	Ability to allow for single unit exceptions when placing a roster on or off duty.	S		
592	Ability to log a fire apparatus into service without tying individuals to the apparatus.	S		
593	Ability to identify fire units by special equipment (e.g., rescue tools).	S		
594	Ability to keep vehicles (e.g., fire apparatus) on duty (e.g., 24x7) and change personnel associated with the vehicles (e.g., on shift changes).	S		
595	Ability to designate a unit available for only certain types of calls.	S		

596	Ability for dispatcher to place one or more units in service by "dragging and dropping" the units into the appropriate screen.	S		
597	Ability for units to log themselves into or out of service from the Mobile Computer and display the status change in CAD.	S		
598	Ability to prevent units from logging themselves into and out of service from the Mobile Computer.	S		
599	Ability to add an individual to a unit at any time.	S		
600	Ability to remove an individual from a unit at any time.	S		
601	Ability to associate multiple individuals with a single unit.	S		
602	Ability to independently track the activity of two or more individuals associated with a single unit.	S		
603	Ability to associate skills with a unit.	S		
604	Ability to indicate a unit does not have a mobile computer.	S		
605	Ability to simultaneously create an incident and log field personnel onto that call (e.g., off-duty field personnel taking calls).	S		
606	Ability to simultaneously dispatch a unit on an incident and log field personnel onto that call (e.g., off-duty field personnel taking calls).	S		
607	Ability to simultaneously clear field personnel from a call and log the personnel out of the system (e.g., for field personnel taking calls when off-duty).	S		
608	Ability to sign a unit on with temporary call sign (e.g., to indicate off-duty or on special assignment).	S		
609	Ability to track special assignments (e.g., working off-duty jobs):	S		
610	<i>Assign officer to location</i>	S		
611	<i>Designate officer as not available to take calls</i>	S		

612	<i>Designate officer as on special duty</i>	S		
613	<i>Designate a timer function to alert dispatcher when to check on unit status</i>	S		
614	Cross Staffing			
615	Ability to identify company personnel capable of staffing multiple resources.	S		
616	Ability to change a vehicles capabilities on the fly, based on personnel assigned.	S		
617	Ability for a user to change a vehicle capabilities on the fly.	S		
618	Ability to remove an apparatus from service if personnel are not available to staff the apparatus (e.g., personnel are assigned to another apparatus for a call).	S		
619	Ability to place an apparatus back in service when personnel are available to staff the apparatus.	S		
620	Unit Status Display			
621	Ability to monitor an unlimited number of units.	S		
622	Ability to modify unit availability regardless of status (e.g., on-scene, but available).	S		
623	Ability to display the following unit information:	S		
624	<i>Area</i>	S		
625	<i>District</i>	S		
626	<i>Beat</i>	S		
627	<i>Division</i>	S		
628	<i>Station</i>	S		
629	<i>Unit ID/call sign</i>	S		
630	<i>Vehicle number</i>	S		
631	<i>Radio ID</i>	S		
632	<i>Radio Channel</i>	S		
633	<i>Call type</i>	S		

634	<i>Current incident number</i>	S		
635	<i>Current location</i>	S		
636	<i>Current status</i>	S		
637	<i>Time dispatched to current incident</i>	S		
638	<i>Time of last status change</i>	S		
639	<i>Elapsed time in status</i>	S		
640	<i>Last known location</i>	S		
641	<i>Logged onto Mobile (Y/N)</i>	S		
642	<i>Name</i>	S		
643	<i>Original location</i>	S		
644	<i>Special note or comments</i>	S		
645	<i>Special skills/training</i>	S		
646	<i>Any information captured at logon</i>	S		
647	Ability to dynamically (automatically update) display unit status data.	S		
648	Ability to sort displayed data by any unit information (e.g., station, incident, unit, location, status).	S		
649	Ability to filter the units to be displayed in a single status monitor (e.g., by response area, discipline, type, status, out of service (mechanical)).	S		
650	Ability of status monitor to automatically apply a scroll-bar at any time the number of units exceed the size of the window.	S		
651	Ability to visually differentiate, through color, text and/or symbols, unit status:	S		
652	On CAD unit status display	S		
653	On map display	S		
654	Ability to visually differentiate, through color, text and/or symbols, unit type:	S		
655	On CAD unit status display	S		

656	On map display	S		
657	Ability to configure multiple status monitors with different filters, sort order and information displayed.	S		
658	Ability to save status monitor configuration by role (police, fire, call taker, etc.)	S		
659	Ability to save status monitor configuration by user.	S		
660	Ability to set permissions to prevent unwanted changes to status monitors.	S		
661	Ability to distribute status monitor configurations among all affected workstations	S		
662	Unit Activity Tracking			
663	Ability to record all unit assignments.	M		
664	Ability to record all unit locations.	S		
665	Ability to initiate status changes via the following methods:	S		
666	<i>Command line</i>	M		
667	<i>Function key</i>	S		
668	<i>Mouse click (e.g., screen icon)</i>	S		
669	Ability to date and time stamp all unit status changes.	S		
670	Ability to record the source of the status change (e.g CAD user or mobile data user)	S		
671	Ability to review unit status history within the CAD application.	S		
672	Ability to record multiple Agency defined time-stamped status messages (e.g., arrival time, start of extrication).	S		
673	Ability to update location and note mileage for multiple stops.	S		
674	Ability to record multiple arrival times, including:	S		
675	<i>Arrival at a staging area</i>	S		
676	<i>Arrival at the scene (e.g., general location)</i>	S		

677	<i>Arrival at patient</i>	S		
678	Ability to record multiple units arriving:	S		
679	<i>At one time (all at once)</i>	S		
680	<i>At different times</i>	S		
681	Ability to place "at the scene" units that were not originally dispatched to the call.	S		
682	Ability for a dispatcher to change the location of a unit at any time while the unit is still assigned to an incident.	S		
683	Ability to manually override a time stamp (e.g., if a unit forgets to hit "on-scene" and dispatcher needs to "back time" the time stamp).	S		
684	Ability to log the overridden time stamp (e.g., the date/time the time stamp was overridden and user).	S		
685	Ability for all overridden date and time stamps to be clearly recorded and displayed as a manually entered override time.	S		
686	Ability to alert users monitoring or displaying the incident that information has changed.	S		
687	Unit Clearance			
688	Ability to limit specific incident types to a subset of disposition codes	S		
689	Ability to clear one unit from a CAD incident while allowing the other assigned units to remain on the call.	S		
690	Ability to clear all units simultaneously from a CAD incident, then close the call.	S		
691	Ability, when closing a call, to automatically clear all units.	S		
692	Ability to request user confirmation prior to clearing the last unit from a CAD incident.	S		
693	Ability to alert responding units when additional units are cleared from or added to a call.	S		

694	Ability to require a disposition to be entered prior to clearing the primary unit from a CAD incident.	S		
695	Ability to automatically send a disposition status on calls received through the ASAP interface.	S		
696	CAD Call Display			
697	Ability to monitor an unlimited number of incidents.	M		
698	Ability for a user to select an incident for continuous monitoring such that:	S		
699	<i>Incident appears in a separate window</i>	S		
700	<i>All incident or unit activity, regardless of point of entry, is displayed in this window as it is recorded to the CAD database</i>	S		
701	Ability to review incident information in reverse chronological order.	S		
702	Ability to display the following information, on a user defined basis:	S		
703	<i>Response area</i>	S		
704	<i>Incident number</i>	S		
705	<i>Incident type</i>	S		
706	<i>Location</i>	S		
707	<i>Priority</i>	S		
708	<i>Status</i>	S		
709	<i>Time in status</i>	S		
710	<i>Time received</i>	S		
711	<i>Total elapsed time</i>	S		
712	Ability to filter active calls by:	S		
713	<i>Incident type</i>	S		
714	<i>Response area</i>	S		
715	<i>Priority</i>	S		
716	<i>Time in status</i>	S		

717	<i>Time received</i>	S		
718	<i>Total elapsed time</i>	S		
719	Ability to sort active calls by:	S		
720	<i>Incident type</i>	S		
721	<i>Response area</i>	S		
722	<i>Priority</i>	S		
723	<i>Time in status</i>	S		
724	<i>Time received</i>	S		
725	<i>Total elapsed time</i>	S		
726	Ability to view incident details of one or more incidents at a time.	S		
727	Ability to automatically zoom to incident location on the map when viewing incident details.	S		
728	Ability to provide a special location to display "hot" calls.	S		
729	Ability for agency to define "hot" calls.	S		
730	Ability to initiate a perimeter command to generate a perimeter upon entry of a location and perimeter distance (e.g., set a 3 block perimeter around 300 Main St.).	S		
731	Ability to send suggested perimeter positions to a unit.	S		
732	Ability to create perimeters based on Agency defined templates that take into account call type (e.g., chemical spill requires 10 block perimeter).	S		
733	Ability to configure multiple incident monitors with different filters, sort order and information displayed.	S		
734	Ability to save incident monitor configuration by role (police, fire, call taker, etc.)	S		
735	Ability to save incident monitor configuration by user.	S		
736	Ability to set permissions to prevent unwanted changes to incident monitors.	S		

737	Ability to distribute incident monitor configurations among all affected workstations	S		
738	CAD Incident Updates			
739	Ability to dynamically display incident status data in a summary window (status monitor), without user intervention.	S		
740	Ability to update the incident as new information is received including, but not limited to:	S		
741	<i>Call type</i>	S		
742	<i>Incident location</i>	S		
743	<i>Fire alarm level</i>	S		
744	<i>Comments</i>	S		
745	Ability for call takers to add information to a CAD incident after the incident has been routed to a dispatcher.	S		
746	Ability to simultaneously notify dispatcher and dispatched units of updated information, via:	S		
747	<i>Visual alert</i>	S		
748	<i>Audible alert</i>	S		
749	Ability for dispatcher screen to update automatically as new information is added to a call.	S		
750	Ability for the screen of anyone monitoring a call to update automatically as new information is added to a call.	S		
751	Ability to update incident data via:	S		
752	<i>Command line entry</i>	S		
753	<i>Mouse</i>	S		
754	Ability to automatically record all CAD incident information changes in chronological order.	S		
755	Ability for system to automatically highlight changes made since last view by user.	S		

756	Ability for users to add supplemental information to closed incidents.	S		
757	Reopening CAD Incidents			
758	Ability to reopen closed incidents.	S		
759	Ability for all authorized users to view reopened calls (e.g., workstation users, mobile users).	S		
760	Ability to reopen a closed call without losing previously recorded date and timestamps.	S		
761	Ability to log all previously entered dispositions, when the disposition is changed on a reopened call.	S		
762	Ability to assign units to reopened calls.	S		
763	Ability to record the reopening command in the original incident audit trail and continue recording actions to the original audit trail.	S		
764	Ability for dispatchers to add comments to a CAD call record after the call is closed without reopening the incident.	S		
765	Towed Vehicles			
766	Towing Vehicle Rotation List			
767	Ability to establish towed vehicle lists on an Agency defined basis (i.e., unique list for each jurisdiction).	S		
768	Ability to maintain a list of multiple tow company contractors with different kinds of capabilities (e.g., asset seizure, evidence impound).	S		
769	Ability for system to recommend a contractor for a selected incident or unit based on the following:	S		
770	<i>Contractor capabilities</i>	S		
771	<i>Vehicle location</i>	S		
772	<i>Position in contractor rotation list</i>	S		
773	Ability to record when a contractor is recommended.	S		

774	Ability to record that a contractor was selected from the service rotation list.	S		
775	Ability to record contractor response.	S		
776	Ability to capture reason for exception when a contractor other than the one recommended is selected.	S		
777	Ability to place a contractor that cannot be reached for a call at the bottom of the rotation list.	S		
778	Ability to replace a contractor at the top of the rotation list when the dispatchers cancels the tow call out (e.g., through no fault of the contractor).	S		
779	Ability to attach tow request and response record to incident record and associated vehicle record.	S		
780	Tow Log			
781	Ability to generate a log of all vehicles towed by:	S		
782	<i>Contractor</i>	S		
783	<i>Capabilities</i>	S		
784	<i>Rotation List</i>	S		
785	<i>Date/Time</i>	S		
786	Call Disposition			
787	CAD Incident Cancellation			
788	Ability to cancel an incident with a single command.	S		
789	Ability to configure by agency a mandate that the user enter a reason for canceling an incident prior to the system executing the command to cancel.	S		
790	Ability to automatically remove the incident from the pending or active incidents queue and add the disposition (e.g., cancelled) upon execution of a command canceling an incident.	S		
791	Disposition Recording			
792	Ability for the agency to define disposition codes.	S		

793	Ability to filter disposition codes by agency (e.g., fire and law enforcement each have their own disposition codes).	S		
794	Ability to support an unlimited number of disposition codes.	S		
795	Ability to support alphanumeric disposition codes.	S		
796	Ability for the agency to define multiple disposition codes for one incident.	S		
797	Ability to require a disposition code before an incident can be cleared.	S		
798	Ability for either dispatchers or field personnel to enter the disposition code.	S		
799	Ability to enter comments along with a disposition code.	S		
800	Ability for field personnel to enter comments along with a disposition code.	S		
801	Ability to enter comments of an unlimited length with a disposition code.	S		
802	Ability to create a final master disposition for an incident.	S		
803	Ability to reject a disposition if unsuitable for the incident type based on Agency defined criteria.	S		
804	Ability to alert the dispatcher if the complainant is seeking contact, upon entry of a disposition code:	S		
805	<i>Audible alert</i>	S		
806	<i>Visual alert</i>	S		
807	BOLOs			
808	Ability to create BOLOs (based upon level of security clearance).	S		
809	Ability to provide an audit trail for BOLOs.	S		
810	Ability for field personnel to create BOLOs.	S		
811	Ability to associate a BOLO with an incident number.	S		

812	Ability to display on an incident screen an indication that there is an associated BOLO.	S		
813	Ability to provide the following fields for a BOLO record:	S		
814	<i>Date issued</i>	S		
815	<i>BOLO expiration date</i>	S		
816	<i>Nature of the BOLO</i>	S		
817	<i>BOLO priority</i>	S		
818	<i>Associated incident number</i>	S		
819	<i>Subject name</i>	S		
820	<i>Subject description:</i>	S		
821	<i>Height</i>	S		
822	<i>Weight</i>	S		
823	<i>Hair color</i>	S		
824	<i>Eye color</i>	S		
825	<i>Date of birth</i>	S		
826	<i>Known address or location</i>	S		
827	<i>Driver's license number</i>	S		
828	<i>Vehicle description</i>	S		
829	<i>Vehicle license plate</i>	S		
830	<i>Weapon (multiple)</i>	S		
831	<i>Known associates</i>	S		
832	<i>Last known location</i>	S		
833	<i>Direction of travel</i>	S		
834	<i>Contact Information</i>	S		
835	<i>Person issuing the BOLO</i>	S		
836	<i>Agency issuing the BOLO</i>	S		
837	<i>Additional information in free-form text field</i>	S		
838	Ability to search for BOLO based upon any of the above-mentioned items.	S		
839	Ability to accommodate multiple subjects in a BOLO.	S		

840	Ability to accommodate multiple vehicles in a BOLO.	S		
841	Ability to accommodate multiple weapons in a BOLO.	S		
842	Ability to attach a file to a BOLO.	S		
843	Ability to embed a photo in a BOLO.	S		
844	Ability to update a BOLO.	S		
845	Ability to set time limits for BOLO retention and have the BOLO expire after the time limit has been reached.	S		
846	Ability to modify the time limit for a BOLO.	S		
847	Ability to close a BOLO.	S		
848	Ability to designate groups or individuals to whom BOLOs should be sent.	S		
849	Ability to view history of recently created BOLOs.	S		
850	Ability to archive expired BOLO records.	S		
851	Ability to search expired BOLO records.	S		
852	Communications Supervisor Support			
853	Ability for a communications supervisor to monitor system configuration and current staffing (e.g., who is signed-on, at what position, and with what responsibilities).	S		
854	Ability for a CAD workstation to be configured as a supervisor workstation upon logon of a user with a CAD supervisor profile.	S		
855	Ability for a communications supervisor to monitor activity on any user workstation.	S		
856	Ability to generate statistical information from within the CAD application on all user activity including all incident management time parameters (time on hold, response time, etc.).	S		
857	Ability for a communications supervisor to remotely take direct control over a workstation.	S		
858	Ability to log when a user takes control of a workstation.	S		

859	Ability to allow two users to work on the same call simultaneously (e.g., trainer and trainee).	S		
860	Ability for, when multiple users are working on the same call, for the user's actions with the higher security profile (e.g., supervisor or trainer) to override the other user's action.	S		
861	Ability for a supervisor user to reset passwords for other users.	S		
862	CAD Testing/Training Environment			
863	Ability to support a CAD testing/training environment that mirrors the functionality of the CAD production environment.	S		
864	Ability to support a CAD testing/training environment that mirrors the configuration of the CAD production environment.	S		
865	Ability to visually distinguish testing/training environments from production environments.	S		
866	Ability to designate any production workstation as a training workstation based on user log on.	S		
867	Ability to designate any training workstation as a production workstation based on user log on.	S		
868	Ability for testing and training to occur without impacting the production environment.	S		
869	Ability to update testing/training system with historical data from production system at Agency defined intervals.	S		
870	Ability to support a separate test E9-1-1 connection (or a canned script of E9-1-1 information).	S		
871	Ability to support a separate test mobile connection (or a canned script of mobile information).	S		
872	CAD Reporting and Query Features			

873	CAD Reporting and Analysis			
874	Ability to provide a native reporting tool that can:	S		
875	Create CAD reports based on any combination of data field in the CAD database	S		
876	Ability to create, within the CAD application, standard reports consistent with NFPA 1221 benchmarks.	S		
877	Ability to create, within the CAD application, standard reports consistent with NFPA 1710 benchmarks.	S		
878	Ability to generate the following standard reports from within the CAD application:	S		
879	<i>Incident summary by address and date/time range</i>	S		
880	<i>Incident detail by address and date/time range</i>	S		
881	<i>Incident summary by field or CAD user and date/time range</i>	S		
882	<i>Incident detail by field or CAD user and date/time range</i>	S		
883	<i>Unit history by:</i>	S		
884	<i>Unit ID/call sign</i>	S		
885	<i>Field user</i>	S		
886	<i>Area</i>	S		
887	<i>District</i>	S		
888	<i>Beat</i>	S		
889	<i>Response Area</i>	S		
890	<i>Incident analysis by day of week</i>	S		
891	<i>Incident analysis by geographic area (e.g., University)</i>	S		
892	<i>Incident analysis by hour of day</i>	S		
893	<i>Incident analysis by shift</i>	S		
894	<i>Incident analysis by call type</i>	S		
895	<i>Incident analysis by disposition</i>	S		
896	<i>Incident analysis by geographic area by hour of day</i>	S		

897	<i>Incident analysis by responding agency</i>	S		
898	<i>Incident analysis by unit</i>	S		
899	<i>Fractile reports</i>	S		
900	<i>Fractile reports by unit</i>	S		
901	<i>Processing time by method of call receipt</i>	S		
902	<i>Response times by geographic area</i>	S		
903	<i>Response times by type of call/priority</i>	S		
904	<i>Response times by original call destination</i>	S		
905	<i>Response times by assigned unit</i>	S		
906	<i>Total and average time on call – by day of week</i>	S		
907	<i>Total and average time on call – by geographic area</i>	S		
908	<i>Total and average time on call – by hour of day</i>	S		
909	<i>Total calls for service by:</i>	S		
910	<i>Date or date range</i>	S		
911	<i>Disposition</i>	S		
912	<i>Time of day</i>	S		
913	<i>Total incidents by date by nature or disposition</i>	S		
914	Ability to provide an analytical tool that reviews workload by, but not limited to:	S		
915	<i>Workstation</i>	S		
916	<i>Call taker/dispatcher</i>	S		
917	Ability to report on unavailability of field personnel resources.	S		
918	Ability to report on unavailability of equipment resources.	S		
919	Ability to account for unavailable resources in response time calculations.	S		
920	Ability to capture a snap shot, based on day and time parameters, of:	S		
921	<i>A workstation</i>	S		
922	<i>General CAD system</i>	S		

923	Ability to generate, from within the CAD application, a daily listing of incidents and personnel assigned to the incidents including, but not limited to:	S		
924	<i>Actual dispatch location</i>	S		
925	<i>Call taker/dispatcher ID</i>	S		
926	<i>Date/time received</i>	S		
927	<i>Disposition</i>	S		
928	<i>Field personnel name</i>	S		
929	<i>Field personnel ID</i>	S		
930	<i>Incident location</i>	S		
931	<i>Incident number</i>	S		
932	Ability to print audit report of changes to incident records including:	S		
933	<i>Transaction type (deletion, edit, etc.)</i>	S		
934	<i>Unit ID</i>	S		
935	<i>Workstation/terminal ID</i>	S		
936	<i>Before and after value</i>	S		
937	Ability to generate a list of incidents to be shared with the public based on Agency specific business rules.	S		
938	Ability to generate a report containing a summary of incidents for an Agency defined period of time for distribution to the public.	S		
939	CAD Queries			
940	Ability to query the following databases from within the CAD application:	S		
941	<i>Police Records Management System</i>	S		
942	<i>Fire-EMS Records Management System</i>	S		
943	<i>VCIN/NCIC</i>	S		
944	<i>Ability to send and receive image attachments to VCIN/NCIC queries</i>	S		

945	<i>Any combination of the above in a single query</i>	S		
946	Ability to populate the query mask with data in the incident record without cutting and pasting (e.g., with a function key or one or two key strokes):	S		
947	<i>Person Information</i>	S		
948	<i>Vehicle Information</i>	S		
949	Ability to automatically run a registered vehicle owner upon return of a license plate query.	S		
950	Ability to query resource availability by:	S		
951	<i>Unit</i>	S		
952	<i>Dispatch group</i>	S		
953	<i>Geographic area (e.g., fire zone box, beat, sector)</i>	S		
954	<i>Special skills</i>	S		
955	<i>Unit types (e.g., apparatus, patrol units, Hazmat)</i>	S		
956	Ability to query unit status by:	S		
957	<i>Date and time range</i>	S		
958	<i>Dispatch group</i>	S		
959	<i>Personnel ID</i>	S		
960	<i>Geographic area (e.g., fire zone box, beat, sector)</i>	S		
961	<i>Incident type</i>	S		
962	<i>Unit ID</i>	S		
963	<i>Unit types (e.g., apparatus, patrol units)</i>	S		
964	Ability to print query returns at any time.	S		
965	Ability to sort query results by any criteria (e.g., most recent to oldest, by priority).	S		
966	CAD Searches			
967	Ability to search on any operational data field.	S		
968	Ability to conduct searches based on:	S		
969	<i>Soundex</i>	S		
970	<i>"Wild cards"</i>	S		

971	<i>Exact match</i>	S		
972	<i>Partial information</i>	S		
973	<i>Boolean operators ("and," "or," and "not")</i>	S		
974	<i>Date ranges</i>	S		
975	<i>Geographics proximity (e.g. nearby) by user defined limit</i>	S		
976	Ability to narrow down searches (search within a search).	S		
977	CAD and Mobile Messaging			
978	General Messaging Features			
979	Ability to send messages to a user who is not logged into CAD and cache that message for retrieval when the user logs onto CAD.	S		
980	Ability to send broadcast messages to:	S		
981	<i>All users</i>	S		
982	<i>All users in an agency</i>	S		
983	<i>All units in a district/zone</i>	S		
984	Ability to support a minimum of the following messaging functions to and from any CAD address:	S		
985	<i>Dispatch-to-individual user messaging</i>	S		
986	<i>Dispatch-to-dispatch messaging</i>	S		
987	<i>Dispatch-to-unit messaging</i>	S		
988	<i>Dispatch-to-pager messaging</i>	S		
989	<i>Dispatch-to-station messaging</i>	S		
990	<i>Unit-to-individual user messaging</i>	S		
991	<i>Unit-to-dispatch messaging</i>	S		
992	<i>Unit-to-dispatch messaging, without units having to know the dispatcher workstation</i>	S		
993	<i>Unit-to-unit messaging</i>	S		
994	Ability to display the following identifiers within a message:	S		

995	<i>Sender name</i>	S		
996	<i>Sender date</i>	S		
997	<i>Sender time</i>	S		
998	<i>Sender workstation ID</i>	S		
999	<i>Sender unit ID</i>	S		
1000	<i>Receiver name</i>	S		
1001	<i>All receivers that were addressed in the message</i>	S		
1002	<i>Receiver date</i>	S		
1003	<i>Receiver time</i>	S		
1004	<i>Receiver workstation ID</i>	S		
1005	<i>Receiver unit ID</i>	S		
1006	Ability to print messages	S		
1007	Ability to assign and change a priority to a message (e.g., routine, urgent, emergency).	S		
1008	Ability for system administrator schedule recurring messages to be delivered by hour, day or day of the week	S		
1009	Ability for each terminal to have a unique identifier included in each transmission to the host.	S		
1010	Ability to attach a dispatch-related messages to an incident.	S		
1011	Ability to store messages for later viewing.	S		
1012	Ability to store unread messages when user logs off.	S		
1013	Ability for messages to be sorted by most recent or first received.	S		
1014	Sending Messages			
1015	Ability to create easily accessible Agency defined message forms for specific message types.	S		
1016	Ability to create, edit and save message groups.	S		
1017	Ability to send messages across agencies (e.g., law enforcement to fire and vice versa).	S		

1018	Ability to select a recipient from the unit status window within CAD.	S		
1019	Ability for users to select an unlimited number of people as part of a message group.	S		
1020	Ability to enter unlimited narrative with wrap-around feature.	S		
1021	Ability to reply or reply to all for a received message	S		
1022	Ability to forward a received message	S		
1023	Ability to add to a message before forwarding to another user.	S		
1024	Ability to attach files to messages.	S		
1025	Ability to embed photos in messages.	S		
1026	Ability to set Agency defined file size limit and file type	S		
1027	Ability to automatically compress and resize images to comply with Agency defined file size limits.	S		
1028	Ability to send a message to all units handling a specific incident.	S		
1029	Ability to provide a notification for delivery of messages to the device.	S		
1030	Ability to provide a notification for non-delivery of messages.	S		
1031	Receiving Messages			
1032	Ability to notify receiver via an audible and/or visual flag that a new message has arrived in mailbox.	S		
1033	Ability to notify receiver of an unread message after an Agency defined time period.	S		
1034	Ability to provide a visual distinction between the following:	S		
1035	<i>External messages</i>	S		
1036	<i>General messages</i>	S		

1037	System messages	S		
1038	Query returns	S		
1039	Ability to notify receiver of total number of unread messages.	S		
1040	Ability to prevent incoming messages from overlaying the screen.	S		
1041	Ability for each message to be displayed in a separate window.	S		
1042	Ability for messages to be queued in an "inbox" for later viewing at the convenience of users.	S		
1043	Ability to identify high priority messages by type of priority.	S		
1044	Ability of the receiving user to enter a single keystroke command to retrieve and display the message.	S		
1045	Ability to set message priority of specific system generated messages (e.g., high priority of warrant file returns).	S		
1046	Ability to query message logs by Agency defined criteria (e.g., date/time range, sender, recipient, device).	S		
1047	Ability to note time opened/read by receiver.	S		
1048	Ability to queue and display message waiting by priority.	S		
1049	Ability to clear a message from the inbox.	S		
1050	Ability to retain a message in the inbox.	S		
1051	Ability for supervisors to monitor messages.	S		
1052	CAD System Administration			
1053	CAD Table Maintenance			
1054	Ability for CAD fields to default to Agency defined values.	S		
1055	Ability to include, at a minimum, the following data tables:	S		
1056	Call source (e.g., officer-initiated, 9-1-1, 10-digit, SMS)	S		

1057	<i>Call types and priorities</i>	S		
1058	<i>Commands</i>	S		
1059	<i>Devices</i>	S		
1060	<i>Dispositions</i>	S		
1061	<i>Equipment</i>	S		
1062	<i>Event error logs (so vendor can identify and troubleshoot errors)</i>	S		
1063	<i>Patrol and command area definitions</i>	S		
1064	<i>Personnel, including emergency contact information and current assignment</i>	S		
1065	<i>Timers</i>	S		
1066	<i>Unit status types (i.e., assigned, unassigned, assigned but available)</i>	S		
1067	<i>Units</i>	S		
1068	Ability to accommodate Agency defined unit identifiers.	S		
1069	Ability to configure commands (e.g., V = vehicle stop) at the administrator level.	S		
1070	Ability to limit the command/functions by user or role.	S		
1071	Ability to configure status code colors.	S		
1072	Ability to create and maintain a call type classification that is based upon the time of day.	S		
1073	CAD Configuration			
1074	Ability to create Agency defined data entry screens.	S		
1075	Ability to configure the field entry sequence.	S		
1076	Ability to create conditional fields and mandatory data elements based on Agency defined criteria.	S		
1077	Ability for agency to add or change data elements on any screen based on defined system permissions.	S		
1078	Response Plans			
1079	Ability for agency to develop response plans based on:	S		

1080	<i>Geographic area (e.g., beat, sector, fire zone box)</i>	S		
1081	<i>Address</i>	S		
1082	<i>Multiple response route configuration (e.g., divided highway).</i>	S		
1083	<i>Time of day</i>	S		
1084	<i>Fire alarm level</i>	S		
1085	<i>Call type</i>	S		
1086	<i>Fire pre-plan</i>	S		
1087	<i>Resource availability</i>	S		
1088	<i>Station coverage requirements</i>	S		
1089	Ability to assign a single response plan with multiple call types.	S		
1090	Ability to include multiple agencies in response plans.	S		
1091	Ability for user to override response plan recommendation.	S		
1092	Ability to load a new response plan without stopping or pausing application operations.	S		
1093	Ability for response plan to recommend response based on other units assigned to a call and their location in the response run order (e.g. recommend a first responder when first or second due ALS unit is not available).	S		
1094	Hazard and Premise History File Maintenance			
1095	Ability to capture hazard and premise information including, but not limited to:	S		
1096	<i>Building information</i>	S		
1097	<i>Emergency contact information</i>	S		
1098	<i>Domestic Violence history</i>	S		
1099	<i>Hazardous materials</i>	S		
1100	<i>Medical concerns</i>	S		
1101	<i>Occupancy information</i>	S		

1102	<i>Pre-plan information</i>	S		
1103	<i>Unsafe structures</i>	S		
1104	<i>Dangerous animals</i>	S		
1105	<i>Knox box locations</i>	S		
1106	<i>Special location instructions</i>	S		
1107	<i>Officer Safety</i>	S		
1108	Ability to record with an entered hazard:	S		
1109	<i>Expiration date (can be auto filled based on user-defined expiration dates and date stamp)</i>	S		
1110	<i>Time and date stamp at time of entry</i>	S		
1111	<i>ID of person entering information</i>	S		
1112	<i>Agency of person entering information</i>	S		
1113	<i>Name of person entering information</i>	S		
1114	Ability to enter hazards and premise information associated with:	S		
1115	<i>Persons</i>	S		
1116	<i>Specific locations (including apartment and unit/suite numbers)</i>	S		
1117	<i>Address ranges</i>	S		
1118	<i>Vehicles</i>	S		
1119	Ability to establish hazards/premises with narratives of unlimited length.	S		
1120	Ability to establish templates based on hazard/premise type.	S		
1121	Ability to associate a temporary hazard with a location.	S		
1122	Ability to automatically notify Agency defined users when a temporary hazard is entered.	S		
1123	Ability to attach files to hazard and premise records (e.g., building layouts).	S		

1124	Ability to define valid date ranges for time limited hazards/premise information at a given location (e.g., information valid between <start date> and <end date>).	S		
1125	Ability to automatically purge temporary hazards after an Agency defined period of time.	S		
1126	Ability to generate a report of hazards nearing their expiration/purge date.	S		
1127	Ability to archive expired premise file information.	S		
1128	CAD Recovery			
1129	Ability to retain and display last-known unit and incident status in the event of a catastrophic system failure (e.g., at the workstation, remote external logging device or similar solution).	S		
1130	Ability to load incidents from the backup environment into the production environment upon restarting system after a system failure.	S		
1131	Ability to reset numbering after CAD system has been restarted.	S		
1132	Ability to retain CAD numbering sequence after system has been restarted.	S		
1133	Ability to add incidents retroactively, independent of incident number order or sequential time sequence (i.e., incident 15 may have occurred after incident 20) in the event that the CAD system is unavailable for a time.	S		
1134	Ability to process retroactive incidents and assign incident numbers in the same manner as new incidents; the supervisor can override the times associated with the incident.	S		

1135	Ability to set aside a block of call for service numbers in the event of a catastrophic CAD failure to enable a manual workflow and tracking.	S		
1136	Ability to indicate in the audit trail that an incident was entered retroactively.	S		
1137	Ability to perform CAD catch-ups after system downtime, without requiring users to log back in.	S		

Item #	Mapping	Mandatory/Suggested	Functionality Met (Y/N)	Comments
1	Geofile Administration			
2	Ability to accommodate an unlimited number of map layers.	S		
3	Ability to support scale dependent layers.	S		
4	Ability to support a map layer for aerial spatial images.	S		
5	Ability to add geofile layers as needed.	S		
6	Ability to determine which map layers are available for each application (e.g., CAD, Mobile, etc).	S		
7	Ability to change reporting boundaries (e.g., areas, beats, districts).	S		
8	Ability for a single geofile layer to contain overlapping polygons.	S		
9	Ability to update the system with a new geofile without system downtime.	S		
10	Ability to update the system with a new geofile without system performance degradation.	S		
11	Ability to test new geofile updates "offline" for accuracy and errors, prior to updating the "live" geofile.	S		

12	Ability for geofile updates to be recognized without requiring logging off and logging back on to the system.	S		
	Ability to support map layers from outside of the Region's geographical jurisdiction:	S		
13	Virginia Geographic Information Network (VGIN)	S		
14	Other Agency defined sources	S		
15	Ability to support location field inputs from different coordinate reference systems (e.g., Military Grid Reference System (MGRS)).	S		
	Map Data			
	Ability to support the following location fields, including, but not limited to:	S		
16	Apartment building name	S		
17	Apartment number (e.g., ½, #5, 2D, D2)	S		
18	Block range	S		
19	Bridge weight limits	S		
20	Business name	S		
21	Business owner	S		
22	City	S		
23	Civic associations (e.g., areas, neighborhoods, community names)	S		
24	Common place name(e.g., University building number)	S		
25	County	S		
26	District	S		
	Exact address:	S		
27	Fractional addresses	S		
28	Alphanumeric addresses	S		
29	Floor plans	S		
30	Intersections	S		

31	Law enforcement district	S		
32	Limited access roadways and highways	S		
33	Mile markers	S		
34	On ramps, off ramps, exit numbers (including direction)	S		
35	Overpass height limitations	S		
36	Prefix	S		
37	Parcel owner	S		
38	Pavement type	S		
39	Railway mile markers	S		
40	Reporting area	S		
41	Road classification	S		
42	Route number	S		
43	Street abbreviation	S		
44	Street alias	S		
45	Street name	S		
46	Street type	S		
47	Suffix	S		
48	Trail markers	S		
49	Water markings (piers, buoys, nautical navigation, landmarks)	S		
50	X/Y coordinates	S		
51	X/Y/Z coordinates	S		
52	Other Agency defined data	S		
	Ability to associate geofile data with the following:	S		
53	Address	S		
54	Beats	S		
55	Census tract	S		
56	Cross street	S		
57	Entire common place or business name and	S		

	aliases			
58	High and low cross streets	S		
59	Jurisdiction	S		
60	Reporting district	S		
61	Response area	S		
62	Sectors	S		
63	X/Y coordinates	S		
	Ability to cross-reference addresses and locations with:	S		
64	Entire common place or business name and aliases	S		
65	Law enforcement-defined reporting areas	S		
66	Other identifiers	S		
67	Street aliases	S		
68	X/Y coordinates	S		
69	X/Y/Z coordinates	S		
70	Zip codes	S		
	Map Functionality			
71	Ability to turn map layers off and on.	S		
72	Ability to measure the distances on the map.	S		
73	Ability to measure area on the map.	S		
74	Ability to display distances and area in different units.	S		
75	Ability to alert user that additional information (e.g., layers) is available.	S		
76	Ability to force adherence to user defined addressing standards (e.g., abbreviations, directions).	S		
77	Ability to attach files to addresses (e.g., apartment maps, photos, aerial images).	S		
78	Ability to attach premise information (e.g., hazards) to addresses.	S		

79	Ability to click on a location on a map and pull up any supplemental information (e.g., fire pre-plan, hazards, incident history) associated with that location.	S		
80	Ability to click on a location on a map and pull up any supplemental information associated with a Region defined parameter around the location (address, building, block, etc.).	S		
81	Ability to display flags on locations containing additional information (e.g., fire pre-plans, hazards, incident history).	S		
	User Interface			
	Ability to allow users to customize map views including, but not limited to:	S		
82	Day/night mode	S		
83	Font size	S		
84	Level of detail	S		
85	Screen size	S		
86	Ability for user to update/modify map displays (e.g., preset default zoom levels and views).	S		
87	Ability for users to define which map layers are displayed.	S		
88	Ability to reorder the display of map layers at the user level.	S		
89	Ability to adjust the transparency of map layers at the user level.	S		
	Ability to filter the display of CAD calls on the mobile map by:	S		
90	Call type	S		
91	Nature	S		
92	Agency	S		
93	Geographic Area	S		

94	Call status	S		
95	Unit	S		
96	Priority	S		
97	Ability to save display settings at the user level.	S		
98	Ability to tie user driven map configurations and settings to login (e.g., roaming profiles).	S		
	Map Navigation			
	Ability to use a mouse to "click on" a point at any zoom level and have the following information displayed:	S		
99	Street name (including alias)	S		
100	Street type	S		
101	Block number or address range	S		
102	Latitude/longitude	S		
103	Coordinates from various reference systems	S		
104	Prefix directional (N, E, S, W, NE, NW, SE, SW)	S		
105	Suffix directional (N, E, S, W, NE, NW, SE, SW)	S		
106	Sub-address (i.e., unit number, building floor, apartment number, etc.).	S		
107	Ability for the user to define which street information is displayed, when clicking on a map location.	S		
	Ability to provide the following map navigation functionality:	S		
108	Pan from given area to adjacent area	S		
109	Return back to previous view	S		
110	Zoom in on area for enhanced detail	S		
111	Zoom out of an area	S		
112	Move up and down	S		
113	Move left and right	S		
	Ability to zoom to relevant map location by searching on available map layer information including, but not	S		

	limited to:			
114	Common names	S		
115	Common places	S		
116	Coordinates from various reference systems	S		
117	Hydrants	S		
118	Incident number	S		
119	Intersection	S		
120	Landmark	S		
121	Latitude/longitude	S		
122	Non-hydrant water sources	S		
123	Parcel owner	S		
124	Phone numbers	S		
125	Pre Plans	S		